0925

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Final Report

To The

Environmental Protection Agency

Title of Project:	Complement Fixation, Hemagglutination-Inhibition, and Trypsin Inhibitory Capacity Testing of Human Sera.
For The Period:	March 2, 1971 to March 1, 1972
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Contract Number:	68 - 02 - 0032
Supported By:	Environmental Protection Agency Air Pollution Control Office Research Triangle Park, North Carolina 27711

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I. OVERALL OBJECTIVES

To carry out 3,000 complement fixation and hemagglutination-inhibition tests on human sera as supplied by the Environmental Protection Agency. Of these 3,000 sera, 2,000 are to be tested for trypsin inhibitory capacity.

II. WORK COMPLETED

A. Hemagglutination-Inhibition

1. Procedures

The test was performed according to the procedure as set forth in Flow Laboratories' Proposal #30231 and dated October 26, 1970. In essence, the proper dilution (4 units) of each of four antigens (Flu A-2/Japan; Flu A-2/Hong Kong/68; Flu B/Maryland and Flu B/Massachusetts) was determined by the hemagglutination (HA) test prior to each hemagglutination-inhibition (HAI) test. The test was carried out in microtiter "V" plates (Cooke Engineering Co.) using PBS as diluent and 0.4% fresh chicken erythrocytes. Serial two-fold antigen dilutions were made in 0.025 ml amounts, the test shaken and allowed to incubate at room temperature until the cells settled. The titration end-point was considered as the last well showing complete agglutination. This dilution, which represented one unit of hemagglutination, was divided by 4 in order to obtain the dilution that would be equivalent to 4 HA units for use in the HAI test (refer to Table 1).

Prior to carrying out the HAI test, all sera were treated to remove non-specific inhibitors. The procedure employed was as follows: To each volume of serum was added four volumes of RDE (Receptor Destroying Enzyme at 128 units per ml) and incubated overnight at 37°C (waterbath). Three volumes of 2.5% sodium citrate were then added and the mixtures further incubated at 56°C for 30 minutes. Two volumes of PBS were added to yield a final 1:10 dilution of treated serum.

The HAI test was performed by preparing two-fold dilutions of each serum from 1:10 to 1:1280 in 0.025 ml amounts. To each serum dilution was added 0.025 ml of virus suspension containing 4 HA units. The test was incubated at room temperature for 30 minutes after which was added 0.05 ml of 0.4% chicken erythrocytes. The test was further incubated at room temperature until the erythrocytes settled. The antibody titer was considered as the reciprocal of the highest dilution of serum which completely inhibited agglutination.

Appropriate controls were included which are indicated in Table 2. A know positive and negative control serum was included in each HAI test series.

To determine the exact units of antigen employed in the HAI test, a back-titration of each antigen was carried out. This control was performed as an HA test employing the diluted antigen (4 units) as the initial virus dilution. The antigen was further diluted two-fold for five dilutions.

2. Results

A total of 3,170 serum samples were each tested with four Flu antigens. In all tests performed, exactly 4 units of each antigen were used and serum controls were satisfactory.

All HAI results are presented in the following tables. These figures represent the reciprocal of the highest serum dilution which completely inhibited agglutination.

B. Complement Fixation

1. Procedure

The complement fixation (CF) test was performed according to the procedure outlined in Flow Laboratories' Proposal #30231 and dated October 26, 1970, utilizing Influenza Group A and B soluble antigens. In essence, 4 units of antigen were added to graded dilutions of serum (previously heat inactivated at 56°C for 30 minutes) and incubated at 4°C overnight with 1.8 units of complement (SV-5 free). Sensitized sheep red blood cells were added and the plates incubated at 37°C for one hour. The plates were shaken every ten minutes for the first thirty minutes of incubation. The titer was taken as the reciprocal of the highest dilution of serum giving at least a 3+ fixation on a 0-4 scale with 4+ being no hemolysis of the indicator system.

Appropriate specificity controls were included in each test. These controls included: back-titration of antigen to confirm unitage employed; serum anti-complement control; complement titration; known positive and negative serum controls; RBC control.

TABLE 1

HA Test Procedure (Microtiter Technique)

	WELL #							
	1	2	3	4	5	6	7	8
PBS		0.025	0.025	0.025	0.025	0.025	0.025	0.025
Antigen @ 1:10	0.05	0.025	0.025	0.025	0.025	0.025	0.025	*
PBS	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
0.4% Chick RBC's	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Dilution	1:10	1:20	1:40	1:80	1:160	1:320	1:640	RBC Control

* Discard 0.025 ml

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7. Author(s) James K. Noel, Ph.D.			8. Performing Organization Rept. No.
9. Performing Organization Name and Address Flow Laboratories, Inc. 1710 Chapman Avenue Rockville, Maryland 20852			10. Project/Task/Work Unit No. 11. Contract/Grant No. 68-02-0032
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15. Supplementary Notes

16. Abstracts

The overall objectives were to carry out 3,000 complement fixation and hemagglutination-inhibition tests on human sera. The four antigens were: Flu A-2/Japan; Flu A-2/Hong Kong/68; Flu B/Maryland; and Flu B/Massachusetts. A total of 3,170 serum samples were each tested with the four Flu antigens. In all tests performed, exactly 4 units of each antigen were used and serum controls were satisfactory. All HAI results are tabulated as the reciprocal of the highest serum dilution which completely inhibited agglutination. The complement fixation (CF) test was performed utilizing Influenza Group A and B soluble antigens. A total of 3,063 serum specimens were tested. All CF results are tabulated together with the HAI results.

17. Key Words and Document Analysis. 17a. Descriptors

Air pollution
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17b. Identifiers/Open-Ended Terms

17c. COSATI Field/Group 13B

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TABLE 2

HAI Test Procedure

WELL #

	1	2	3	4	5	6	7	8	9	10	11
PBS		0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
Treated Serum @ 1:10	0.05	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025		
4 Units of Antigen	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	--	0.025	
	Incubate at room temperature for 30 minutes										
0.4% Chick RBC's	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Serum Dilutions	1:10	1:20	1:40	1:80	1:160	1:320	1:640	1:1280	Serum Control	Antigen Control	RBC Control

* Discard 0.025 ml

2. Results

A total of 3,063 serum specimens were tested. All CF results are presented together with the HAI results in the following tables. Those specimen numbers which have a (-) indicates insufficient material to carry out the test.

C. Trypsin Inhibitory Capacity

1. Procedure

The test was performed according to a modified procedure of Hummel (Can. J. Biochem. Physiol., 37: 1395, 1959) as stated in Flow Laboratories' Proposal #30231 and dated October 26, 1970. Basically, the reaction mixture contained 2.5 µg trypsin and 12.5 µg soybean trypsin inhibitor or 25 µl of a 1:10 dilution of serum sample to be tested to which was added 0.5 ml dermatube TAME (Worthington Biochemical Corp.) giving a final volume of 0.55 ml.

A series of 12 tubes, 2 controls and 10 serum samples were prepared as a group. Trypsin in the presence and absence of inhibitors were incubated for 10 minutes at room temperature. TAME was added, mixed and immediately transferred to a cuvette and the adsorbancy at 247 Mµ recorded employing an ISCO Model 610 recorder attached to a Coleman Model 46 spectrophotometer. The rate of hydrolysis of TAME was defined as 100% and the trypsin inhibitory capacity was calculated by the formula shown below.

$$\text{Trypsin Inhibitory Capacity} = \frac{\text{(Rate) Trypsin} - \text{(Rate) Inhibitor}}{\text{(Rate) Trypsin}} \times 100$$

Soybean trypsin inhibitor was included in each group of tests which served as a measure of the function of the system.

2. Results

All results are presented along with the HAI and CF results in the following tables. A total of 2,034 tests were carried out.

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
7-10-69	440096	1280	160	640	640	10	10	
"	—046	640	10	40	80	10	10	90
"	—005	1280	1280	80	80	20	20	58
"	—180	80	10	40	80	10	10	
"	—045	80	10	1280	160	10	10	19
"	—105	40	10	320	320	10	10	18
"	—064	320	40	80	80	20	10	18
"	—082	80	10	10	20	10	10	62
"	—060	1280	1280	160	160	20	20	76
"	—068	320	10	20	20	10	10	12
"	—024	640	320	320	160	10	10	13
"	—074	1280	160	1280	640	10	20	22
"	—065	160	10	20	20	10	10	80
"	—146	640	10	20	40	10	10	58
"	—139	160	20	640	160	10	10	66
"	—023	40	10	640	640	10	10	51
"	—012	320	80	320	640	20	10	63
"	—130	80	10	20	20	10	<10	34
"	—079	80	10	40	80	10	10	2
"	—053	320	10	320	80	10	<10	52
"	—036	80	10	20	40	10	10	38
"	—091	320	10	80	160	10	10	68
"	—028	1280	640	320	320	10	10	51
"	—042	80	10	80	160	20	80	30
"	—057	640	80	80	160	10	10	25
"	—295	80	10	40	40	10	40	16
"	—037	1280	1280	1280	160	20	20	16
"	—040	40	10	40	80	20	20	11
"	—044	1280	1280	1280	320	20	10	40
"	—034	20	10	40	20	10	10	34
"	—346	640	1280	20	10	20	10	25

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
7-10-69	440324	40	10	80	40	10	10	
"	-298	640	10	80	80	10	<10	41
"	-326	320	10	40	80	10	10	
"	-249	160	10	80	160	10	10	12
"	-296	80	10	80	160	20	10	37
"	-299	80	20	40	320	10	10	
"	-342	1280	1280	40	40	10	<10	20
"	-319	1280	1280	1280	640	20	20	27
"	-347	640	320	320	320	20	20	50
"	-297	640	20	80	160	40	40	
"	-294	80	10	40	40	10	10	
"	-292	160	10	80	80	10	10	61
"	-314	320	10	80	80	10	10	58
"	-331	160	10	80	320	10	10	
"	-317	320	40	80	80	10	20	63
"	-333	320	40	80	40	20	10	
"	-231	640	160	640	160	10	10	
"	-316	640	40	320	80	10	40	44
"	-348	160	10	1280	320	20	20	66
"	-349	1280	160	320	320	20	10	47
"	-307	1280	40	320	80	20	10	80
"	-305	80	20	40	160	10	10	44
"	-371	80	20	40	40	10	10	66
"	-339	320	10	80	40	10	10	22
"	-340	160	20	160	80	20	20	
"	-303	160	20	160	320	10	10	37
"	-313	160	20	1280	1280	10	10	39
"	-302	320	10	160	80	10	10	80
"	-312	640	640	1280	1280	20	20	82
"	-357	1280	160	40	80	20	20	69
"	-354	160	20	640	160	20	20	36

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
7-10-69	440335	80	20	80	80	20	20	67
"	--351	160	10	320	320	10	20	63
"	—350	160	20	80	40	20	20	20
7-11-69	550344	20	10	80	20	10	10	84
"	—266	160	10	320	10	10	10	64
"	—094	40	80	80	40	10	10	28
"	—297	80	20	80	40	10	10	67
"	—053	640	1280	320	160	80	20	60
"	—300	40	20	80	20	10	10	54
"	—081	20	20	80	10	10	10	60
"	—277	20	80	80	20	20	20	
"	—051	320	320	40	10	20	20	10
"	—474	160	80	160	40	20	20	3
"	—400	40	20	80	80	10	10	
"	—369	40	20	80	20	10	10	73
"	—251	80	20	40	10	20	20	1
"	—089	80	10	160	20	20	<10	25
"	—330	80	20	80	10	20	20	84
"	—326	1280	20	80	40	40	10	
"	—068	80	20	160	40	10	10	3
"	—077	40	10	80	10	10	10	64
"	—042	40	10	40	10	10	20	36
"	—098	80	160	80	10	20	<10	70
"	—044	20	<10	40	10	10	20	42
"	—298	80	80	40	20	10	10	39
"	—301	640	640	80	40	10	10	33
"	—130	10	<10	640	80	<10	20	19
"	—120	80	10	320	80	10	40	57
"	—145	40	10	20	10	10	10	49

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
7-14-69	110185	640	40	80	10	20	<10	
"	—107	80	10	160	10	10	10	
"	—149	40	10	640	320	<10	10	
"	—102	80	10	40	10	10	10	
"	—148	1280	1280	160	40	20	<10	
"	—111	1280	160	640	20	20	10	
"	—131	80	10	640	80	<10	<10	
"	—110	1280	640	320	10	20	<10	
"	—017	20	10	40	10	10	<10	
"	—132	40	10	80	40	10	10	
"	—116	160	20	40	10	20	10	
"	—101	160	10	40	10	<10	10	
"	—189	320	20	40	10	10	10	
"	—119	160	20	80	10	<10	10	
"	—187	40	20	20	10	10	20	
"	—146	160	20	10	10	10	<10	
"	—188	1280	1280	20	20	20	10	
"	—113	1280	320	1280	80	20	10	
"	—043	160	20	20	10	10	10	
"	—095	1280	640	40	10	10	20	
"	—023	1280	1280	40	20	40	10	
"	—097	1280	160	80	20	20	20	
"	—086	1280	640	160	40	10	10	
"	—051	320	40	80	10	20	10	
"	—094	80	20	40	20	20	10	
"	—049	320	80	10	10	10	40	
"	—001	160	40	1280	1280	10	20	
"	—019	320	20	80	80	10	40	
"	—035	40	10	10	10	<10	10	
"	—056	320	20	80	80	10	10	
"	—036	320	10	10	10	10	10	

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
7-14-69	110040	40	10	10	10	<10	<10	
"	-055	640	320	40	10	40	10	
"	-075	640	40	10	10	10	<10	
"	-052	640	20	20	20	10	10	
"	-077	160	20	160	160	<10	10	
"	-012	40	40	40	10	10	20	
"	-022	640	40	1280	320	10	20	
"	-067	640	1280	160	40	<10	10	
"	-096	320	40	20	20	10	10	
"	-060	640	320	640	320	<10	80	
"	-412	320	160	20	10	10	<10	
"	-039	1280	40	160	160	20	80	
"	-057	1280	640	20	10	40	<10	
"	-078	1280	160	160	80	10	10	
"	-050	1280	1280	80	80	20	10	
"	-048	160	10	80	20	10	10	
"	-063	160	20	160	160	10	10	
"	-403	320	40	80	40	20	20	
"	-058	20	20	40	10	10	10	
"	-059	160	20	40	10	<10	10	
"	-029	160	40	20	10	<10	10	
"	-061	40	20	80	20	<10	10	
"	-047	80	10	640	80	10	20	
"	-028	40	20	40	10	10	10	
"	-033	40	20	80	40	10	10	
"	-031	40	40	160	40	10	10	
"	-016	160	80	40	10	20	20	
"	-169	160	10	40	10	20	10	
"	-020	160	80	160	40	20	<10	
"	-009	80	40	80	20	10	20	
"	-186	320	80	40	10	20	20	

Specimen Date	Specimen #	HAI Titers Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	CF Titers Flu A	Flu B	Trypsin Inhibitory Capacity
7-14-69	110122	80	10	20	10	10	10	
"	-252	160	40	20	10	20	10	
"	-160	640	80	80	40	10	10	
"	-220	1280	1280	1280	1280	10	20	
"	-240	80	20	40	10	<10	10	
"	-253	160	20	640	20	10	10	
"	-032	1280	1280	640	160	20	80	
"	-298	20	20	160	80	10	10	
"	-128	20	10	80	40	20	20	
"	-018	320	80	640	320	10	40	
"	-025	640	40	40	40	10	<10	
"	-005	80	10	80	80	<10	20	
"	-248	160	10	40	20	20	10	
"	-255	320	640	<10	10	20	10	
"	-004	320	10	10	10	10	10	
"	-242	160	20	20	10	10	10	
"	-030	1280	640	20	10	40	10	
"	-175	320	160	40	20	20	10	
"	-261	640	160	160	320	10	10	
"	-241	40	10	10	10	10	10	
"	-235	160	10	20	20	10	<10	
"	-007	80	10	20	10	10	10	
"	-246	320	20	40	20	10	10	
"	-234	20	10	80	10	20	10	
7-15-69	440287	40	10	40	40	10	20	
"	-201	1280	<10	20	<10	10	10	
"	-122	160	20	40	10	10	10	
"	-253	1280	1280	1280	1280	20	40	
"	-003	40	10	20	10	<10	<10	
"	-259	640	40	1280	1280	20	20	

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
7-15-69	440120	1280	1280	640	40	<10	20	
"	-316	1280	1280	1280	40	10	20	
"	-061	640	40	320	20	20	20	
"	-176	640	40	40	10	10	10	
"	-113	1280	640	20	10	20	10	
"	-162	40	10	160	160	<10	<10	
"	-020	160	40	640	160	10	20	
"	-049	80	20	40	40	10	10	
"	-170	160	40	160	40	10	10	
"	-158	160	20	320	80	10	20	
"	-166	1280	320	640	80	10	20	
"	-440	320	640	160	40	20	20	
"	-121	1280	1280	1280	1280	10	20	
"	-025	40	40	40	20	10	10	
"	-035	640	40	160	40	10	10	
"	-270	1280	1280	320	160	20	10	
"	-107	640	320	320	80	20	40	
"	-328	160	40	160	40	10	10	
"	-141	640	40	10	10	<40	20	
"	-197	1280	1280	10	10	20	10	
"	-187	1280	1280	20	10	20	20	
"	-138	640	320	80	10	20	<10	
"	-165	1280	1280	40	10	20	10	
"	-159	160	160	10	<10	20	10	
"	-043	160	20	80	20	10	10	
"	-129	1280	640	160	40	40	40	
"	-163	1280	80	40	10	40	<10	
"	-168	160	20	40	20	10	10	
"	-064	640	320	40	40	20	20	
"	-194	160	10	40	40	10	10	
"	-133	80	40	1280	320	10	10	

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
7-15-69	440126	80	20	1280	160	20	*10	
"	-042	1280	1280	<10	<10	20	10	
"	-031	1280	1280	20	10			
"	-303	320	160	640	20	40	10	
"	-319	160	40	1280	320	20	10	
"	-202	1280	1280	20	10	20	10	
"	-135	1280	160	20	10	20	10	
"	-264	80	20	1280	320	20	20	
"	-142	640	80	640	320	10	10	
"	-157	80	20	80	20	10	20	
"	-173	160	40	10	<10	10	10	
"	-192	1280	1280	1280	640	20	20	
"	-017	1280	1280	320	40	40	20	
"	-123	40	20	40	20	10	10	
"	-150	1280	1280	160	40	10	10	
"	-180	40	10	80	20	20	20	
"	-140	1280	1280	1280	40	20	10	
"	-184	320	20	20	10	10	10	
"	-195	80	320	10	10	10	10	
"	-179	1280	640	160	80	10	10	
"	-137	320	640	40	10	40	10	
"	-318	80	20	80	80	10	10	
"	-189	320	40	160	80	40	10	
"	210257	1280	1280	160	10	40	10	50
"	-253	320	20	80	40	10	10	44
"	-275	1280	640	640	80	20	10	68
"	-283	1280	40	1280	320	10	10	36
"	-277	160	20	160	160	<10	20	44
"	-278	320	80	640	160	10	<10	63
"	-203	320	40	640	80	10	10	66

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
7-15-69	210245	320	40	640	40	10	10	41
"	-265	80	10	40	10	10	10	41
"	-093	160	640	10	10	20	10	63
"	-273	640	640	320	160	10	10	86
"	-126	320	20	80	40	10	<10	
"	-344	640	40	80	80	10	10	63
"	-333	160	20	40	20	10	<10	77
"	-408	1280	20	80	80	10	10	66
"	-102	320	10	160	40	10	10	
"	-141	320	20	320	320	40	20	16
"	-373	80	20	80	10	10	10	
"	-396	160	80	640	320	10	10	
"	-123	320	40	160	80	10	10	
"	-019	1280	320	160	40	10	20	
"	-083	160	160	80	40	10	10	
"	-362	1280	1280	640	40	10	20	
"	-022	320	20	40	40	10	10	
"	-321	160	80	160	20	<10	10	
"	-040	640	40	160	<10	10	20	
"	-155	1280	1280	10	10	10	10	
"	-350	320	80	40	40	10	20	
"	-125	1280	40	40	10	10	10	
7-16-69	330165	320	320	80	20	10	10	63
"	-142	40	10	20	10	10	<10	81
"	-388	1280	640	640	20	40	20	61
"	-174	640	160	40	10	<10	<10	63
"	-185	40	<10	10	<10	<10	<10	59
"	-071	160	<10	20	10	10	10	71
"	-199	160	20	320	40	10	10	63
"	-369	40	10	10	10	10	10	69

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
7-16-69	330377	320	20	10	10	10	<10	63
"	- 368	40	<10	20	10	10	10	75
"	-383	160	10	80	40	<10	10	61
"	-193	320	160	320	80	20	10	43
"	-387	80	<10	40	20	10	10	36
"	-375	1280	320	10	10	10	10	71
"	-390	80	20	640	80	20	20	65
"	-190	640	160	10	10	20	<10	84
"	-138	1280	640	40	20	40	20	43
"	-172	20	<10	640	80	<10	10	78
"	-056	160	320	320	80	10	10	39
"	-389	20	<10	10	10	<10	10	80
"	-081	1280	1280	40	<10	20	10	82
"	-385	40	20	160	80	10	<10	71
"	-374	80	40	20	10	10	10	49
"	-065	40	<10	80	80	<10	<10	63
"	-025	40	20	320	160	10	10	49
"	-021	40	20	20	10	10	10	59
"	-182	40	20	160	40	<10	10	41
"	-489	160	40	640	1280	10	10	
"	-484	80	10	20	20	10	10	53
"	-372	80	80	1280	640	10	10	57
"	-395	80	80	640	320	<10	10	36
"	-124	80	20	640	320	10	20	48
"	-381	160	160	40	20	10	10	65
"	-474	40	20	40	80	10	10	78
"	-478	640	640	320	160	10	10	75
"	-426	640	10	160	40	20	10	
"	-482	320	20	320	80	10	20	6
"	-054	80	20	40	40	<10	10	67
"	-057	320	20	160	40	<10	<10	

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
7-16-69	330090	640	640	20	10	20	<10	28
"	-053	1280	40	80	40	20	10	69
"	-397	1280	80	640	80	10	40	61
"	-145	320	320	<10	10	20	<10	24
"	-158	640	320	320	160	40	20	71
"	-495	640	40	320	320	10	40	69
"	-491	1280	1280	320	80	10	10	69
"	-483	160	20	20	20	10	<10	45
"	-019	320	640	20	<10	20	<10	78
"	-018	160	10	320	40	10	<10	32
"	-052	20	10	40	10	<10	10	53
"	-379	160	20	160	80	<10	20	32
"	-092	160	40	1280	640	10	20	71
"	-496	80	10	1280	20	20	20	39
"	-393	160	20	1280	40	10	<10	71
"	-085	640	320	640	40	40	40	
"	-046	1280	320	640	40	10	20	67
"	-181	80	10	160	20	10	10	34
"	-373	640	1280	1280	10	40	<10	39
"	-187	80	20	160	80	10	10	
"	-154	160	80	80	80	10	10	45
"	-162	640	20	20	10	10	10	
"	-144	80	20	10	10	10	10	
"	-148	160	10	80	40	<10	<10	
"	-093	40	10	80	40	10	10	
"	-184	80	10	160	40	10	10	
"	-020	320	160	80	40	10	10	
"	-399	320	10	10	10	10	10	
"	-131	40	10	80	20	10	10	
"	-017	160	20	40	20	10	10	
"	-384	160	160	80	80	10	10	

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
7-16-69	330192	80	10	10	10	10	10	
"	-185	640	320	160	40	10	<10	
"	-047	160	<10	20	10	10	20	
"	-152	1280	640	40	20	10	10	
"	-135	640	40	1280	320	10	10	
"	-175	160	20	160	160	10	10	
"	-486	160	40	40	20	<10	10	
"	-073	1280	1280	160	160	10	10	
"	-155	80	80	640	640	10	20	
"	-044	640	20	320	320	10	10	
"	-391	160	20	40	20	<10	<10	
"	-173	1280	>1280	80	20	10	20	
"	-186	320	10	20	10	10	10	
"	-159	320	20	640	320	10	10	
"	-038	20	10	10	10	<10	10	
"	-013	160	20	20	10	20	10	
"	-140	320	10	10	10	10	10	
"	-396	1280	1280	40	40	10	10	
"	-197	640	1280	80	80	10	10	
"	-120	160	80	40	40	<10	<10	
"	-026	80	40	40	20	10	40	
"	-048	320	320	40	20	20	10	
"	-161	40	40	40	20	10	10	
"	-028	20	20	1280	640	10	320	
"	-015	20	10	20	20	10	<10	
"	-030	80	20	640	320	10	10	
"	-156	80	20	40	20	<10	10	
"	-198	40	20	40	40	10	20	
"	-378	1280	1280	80	40	10	10	
"	-132	640	1280	40	160	10	10	
"	-005	160	10	80	20	10	10	

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
7-16-69	330D29	640	160	10	20	20	20	
"	—189	160	20	1280	640	10	<10	
"	—194	80	40	80	80	10	10	
"	—113	320	40	640	320	10	10	
"	—007	160	20	20	10	10	160	
"	—141	160	20	80	40	10	<10	
"	—027	640	160	160	40	10	20	
"	—008	80	20	80	40	10	10	
"	—151	40	10	20	10	10	10	
"	—475	80	20	1280	1280	10	10	
"	—207	160	40	160	40	10	10	
"	—401	160	10	80	20	10	10	
"	—206	1280	1280	40	10	20	10	
"	—423	320	80	1280	1280	<10	10	
"	—208	40	20	40	20	10	<10	
"	—202	640	640	40	20	10	10	
"	—200	640	640	320	160	20	10	
"	—405	1280	1280	160	40	10	10	
"	—437	320	640	320	320	<10	<10	
"	—436	1280	640	160	80	20	10	
"	—414	20	10	160	80	<10	10	
"	—480	80	10	1280	640	10	20	
"	—203	1280	>1280	640	80	40	20	
"	—418	40	10	1280	640	<10	10	
"	—428	160	20	20	20	10	20	
"	—430	160	20	160	80	10	10	
"	—421	1280	80	160	80	<10	<10	
"	—408	160	40	320	160	10	10	
"	—415	640	640	320	160	10	80	
"	—404	1280	640	1280	640	20	80	
"	—211	1280	1280	320	40	10	10	

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
7-16-69	330425	80	40	80	20	10	10	
"	-213	40	10	160	40	<10	10	
"	-460	160	640	320	40	10	<10	
"	-454	1280	640	80	80	10	10	
7-17-69	440143	320	10	40	10	10	<10	
"	-029	320	160	320	80	20	10	
"	-040	320	40	320	320	40	20	69
"	-177	320	20	160	10	10	10	
"	-154	320	10	40	20	10	10	.53
"	-045	1280	320	40	<10	10	<10	.71
"	-190	320	40	40	10	20	10	
"	210334	160	20	40	10	<10	10	
"	-355	320	10	1280	160	10	10	
"	-342	320	40	80	10	10	20	
"	-099	1280	10	20	10	10	10	
"	-047	640	20	640	40	10	10	
"	-345	80	20	1280	160	<10	40	
"	-368	160	20	80	10	-	-	
"	-106	40	20	320	40	10	20	
"	-399	640	80	80	80	10	10	
"	-354	1280	1280	320	40	10	40	
"	-110	640	40	160	80	10	10	
"	-005	1280	1280	160	40	10	10	
"	-091	1280	1280	<10	<10	20	10	
"	-056	80	20	40	20	10	10	
"	-066	160	20	160	80	10	40	
"	-089	80	10	40	80	<10	20	
"	-423	640	160	80	80	<10	<10	
"	-393	1280	640	160	40	10	10	
"	-004	160	40	80	80	10	10	

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
7-17-69	210188	320	40	80	80			
"	—052	160	20	20	20			
"	—338	1280	20	80	40	20	10	
"	—007	320	40	80	20	20	10	
"	—363	80	20	20	40			
7-18-69	550152	80	20	80	20	10	<10	7.3
"	—115	1280	640	160	40	10	10	18
"	—318	1280	40	160	40	20	10	80
"	—060	320	20	80	40	10	10	71
"	—157	80	10	160	80	10	10	69
"	—121	80	10	640	40	10	10	69
"	—111	40	<10	40	20	10	20	73
"	—070	20	<10	40	20	10	10	49
"	—195	80	20	640	320	10	10	69
"	—193	640	320	160	80	20	<10	
"	—365	40	20	160	80	20	10	73
"	—052	40	10	40	20	10	10	78
"	—326	1280	640	80	40	20	10	63
"	—314	320	80	40	20	10	10	
"	—311	80	10	160	20	10	<10	78
"	—106	320	160	40	10	20	<10	
"	—057	80	10	20	10	10	10	78
"	—325	640	320	40	10	20	10	63
"	—048	320	80	80	20	40	80	71
"	—046	160	40	160	80	20	10	59
"	—199	80	20	20	20	10	20	84
"	—182	80	20	20	20	10	10	84
"	—150	160	20	40	20	10	<10	73
"	—171	160	20	640	160	20	10	67
"	—151	1280	>1280	40	20	10	10	45

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
7-18-69	550119	1280	>1280	20	20	20	10	73
"	—333	640	20	160	20	20	10	82
"	—285	320	20	160	160	10	10	69
"	—291	320	20	160	20	10	10	
"	—265	1280	1280	20	10	40	10	
"	—356	160	10	1280	40	20	20	
"	—172	640	1280	80	80	10	10	
"	—222	640	20	40	20	10	10	
"	—272	1280	1280	160	20	40	40	
"	—095	320	40	640	640	10	20	
"	—205	320	40	320	80	10	10	67
"	—198	160	20	320	160	10	40	
"	—294	640	160	20	10	10	<10	61
"	—286	80	10	80	40	<10	10	53
"	—288	160	10	40	10	20	20	
"	—270	320	80	<10	<10	10	<10	
"	—289	1280	1280	10	10	10	10	
"	—287	160	10	20	10	10	20	
"	—251	160	20	10	20	10	<10	82
"	—274	640	160	160	320	20	40	
"	—293	160	20	80	40	10	10	
"	—278	640	320	10	<10	10	<10	
"	—206	80	10	160	160	10	20	
"	—257	40	20	10	10	10	10	
"	—290	20	10	320	10	<10	10	
"	—283	80	<10	<10	<10	10	10	
"	—323	160	20	40	40	10	10	
"	—328	80	20	320	40	10	10	
"	—331	160	20	10	<10	<10	<10	
"	—336	320	40	40	80	20	10	
"	—229	1280	80	80	40	20	10	

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
7-18-69	550276	320	10	320	160	10	10	
"	-074	640	80	320	80	20	10	
"	-246	160	40	80	20	10	10	
"	-267	1280	1280	10	<10	40	10	47
"	-219	80	10	40	20	10	10	
"	-363	1280	640	320	1280	20	10	63
"	-186	320	160	20	10	10	10	
7-22-69	220122	1280	>1280	10	10	10	10	76
"	-034	320	20	1280	320	10	10	75
"	-477	40	20	<10	10	10	10	29
"	-494	1280	1280	40	20	20	40	16
"	-069	80	20	320	80	10	40	65
"	-013	320	20	80	20	20	20	79
"	-008	640	640	160	160	20	10	71
"	-067	320	40	160	160	10	10	63
"	-033	160	40	20	20	40	40	59
"	-011	1280	640	20	10	20	10	51
"	-131	1280	1280	80	20	80	40	69
"	-080	320	320	80	40	10	10	55
"	-031	160	10	<10	<10	20	40	53
"	-075	640	80	80	40	40	10	47
"	-088	160	20	10	160	10	40	19
"	-048	40	10	20	10	10	10	67
"	-064	40	10	20	20	10	10	66
"	-035	640	640	1280	320	20	160	61
"	-042	80	20	320	20	10	20	67
"	-012	80	20	160	80	20	40	40
"	-010	80	20	40	40	10	40	26
"	-040	320	320	320	80	10	10	
"	-049	80	10	320	20	10	10	69

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
7-22-69	220116	640	80	320	80	20	20	39
"	-085	160	40	320	40	10	20	36
"	-032	80	20	80	10	10	20	85
"	-003	80	20	160	160	40	40	75
"	-004	320	20	40	40	10	10	65
"	-350	1280	1280	10	10	10	20	74
"	-363	160	20	80	40	10	10	
"	-507	1280	640	80	80	10	<10	90
"	-502	320	20	320	40	20	10	25
"	-524	640	40	40	40	10	10	18
"	-306	320	40	40	20	10	10	73
"	-365	160	160	160	20	10	10	55
"	-358	160	10	20	10	10	<10	29
"	-526	40	10	320	320	10	20	70
"	-525	1280	320	1280	640	40	40	48
"	-531	1280	10	40	10	10	10	79
"	-521	160	10	40	40	<10	<10	79
"	-523	1280	10	320	40	10	10	47
"	-527	1280	20	160	40	20	20	18
"	-536	320	40	40	10	20	10	69
"	-519	160	20	40	20	20	10	54
"	-542	640	640	20	20	10	<10	66
"	-510	1280	160	10	<10	10	<10	80
"	-361	640	320	40	10	20	10	46
"	-517	1280	640	80	40	10	10	76
"	-301	320	160	1280	1280	10	20	45
"	-341	1280	640	40	10	20	10	
"	-310	160	20	40	10	10	10	87
"	-501	640	80	80	20	10	10	75
"	-333	1280	1280	20	10	80	10	66
"	-522	160	20	40	40	10	20	79

Specimen Date	Specimen #	HAI Titers Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	CF Titers Flu A	Flu B	Trypsin Inhibitory Capacity
7-22-69	220530	80	20	20	10	<10	10	58
"	-537	320	10	<10	<10	20	10	59
"	-500	160	20	40	40	10	10	76
"	-508	320	20	80	20	20	20	
"	-053	320	40	<10	10	10	<10	47
"	-057	1280	640	320	320	10	20	69
"	-140	320	160	640	320	20	10	46
"	-052	320	40	40	10	10	10	
"	-107	640	20	20	40	10	10	79
"	-023	1280	1280	160	20	20	10	58
"	-014	40	10	10	10	10	<10	59
"	-115	640	320	80	20	10	10	76
"	-154	1280	1280	640	80	40	40	65
"	-024	160	40	10	10	10	10	47
"	-086	1280	1280	1280	1280	80	10	72
"	-061	320	40	20	20	10	20	37
"	-072	80	10	20	10	10	10	25
"	-120	1280	320	640	320	20	20	61
"	-119	160	40	40	20	40	20	
"	-009	160	20	80	20	10	10	90
"	-111	640	80	80	10	80	20	45
"	-096	80	20	20	10	10	10	82
"	-025	160	40	320	160	10	10	-
"	-022	160	160	320	160	20	10	51
"	-036	320	40	20	20	10	10	71
"	-097	320	20	10	10	10	20	61
"	-091	640	20	40	10	20	20	61
"	-021	40	20	10	10	10	10	54
"	-137	160	160	<10	<10	20	<10	80
"	-018	160	40	80	20	20	10	48
"	-020	320	160	320	1280	10	10	75

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
7-22-69	220129	40	20	10	10	10	10	50
"	—125	640	320	40	20	40	20	-
"	—037	40	20	1280	640	20	20	69
"	—056	160	80	20	20	20	20	56
"	—112	1280	160	20	20	20	10	36
"	—476	1280	640	10	20	10	10	65
"	—473	1280	1280	80	40	20	20	68
"	—240	320	20	80	20	10	40	45
"	—248	40	10	<10	10	10	10	59
"	—495	40	10	40	40	<10	<10	55
"	—258	320	80	80	40	10	10	
"	—239	320	10	40	10	10	10	51
"	—402	1280	1280	40	20	10	10	43
"	—437	80	20	80	20	10	20	43
"	—260	1280	640	160	40	10	<10	84
"	—255	640	1280	40	10	10	10	52
"	—277	40	10	640	640	10	160	73
"	—419	40	10	40	20	<10	<10	83
"	—464	40	20	80	20	10	10	69
"	—283	160	20	160	40	10	40	18
"	—498	640	160	320	40	10	40	68
"	—475	1280	1280	20	10	10	20	33
"	—237	20	<10	10	10	10	<10	63
"	—276	20	10	80	80	<10	<10	87
"	—291	160	320	80	40	20	80	47
"	—485	320	10	10	<10	10	10	73
"	—226	40	10	40	20	10	20	70
"	—486	1280	1280	40	10	40	20	
"	—128	160	40	320	320	10	20	43
"	—472	320	80	160	20	20	80	52
"	—462	40	40	80	40	20	20	87

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
7-22-69	220293	40	10	160	20	10	10	51
"	—499	20	10	10	10	<10	10	55
7-23-69	310138	1280	640	40	20	20	20	73
"	—099	1280	640	1280	640	20	20	56
"	—122	640	40	<10	<10	20	20	66
"	—175	1280	1280	20	10	40	10	48
"	—030	160	160	20	10	10	<10	1
"	—027	1280	1280	80	20	40	<10	59
"	—123	160	20	40	20	20	20	88
"	—116	160	80	10	<10	10	20	69
"	—142	1280	320	160	160	10	10	28
"	—075	640	1280	40	20	10	10	80
"	—031	80	20	160	40	<10	<10	63
"	—074	80	20	40	40	10	10	60
"	—051	80	10	10	<10	10	10	71
"	—087	80	20	320	80	10	10	72
"	—383	1280	640	10	10	10	20	63
"	—374	1280	640	10	10	40	10	71
"	—144	40	10	320	40	10	<10	44
"	—199	1280	320	10	10	20	<10	79
"	—178	1280	320	640	160	40	40	61
"	—438	40	40	20	20	40	20	71
"	—032	40	20	10	10	20	10	71
"	—418	160	40	20	10	<10	10	
"	—076	320	160	160	40	10	20	
"	—101	1280	40	1280	1280	10	10	84
"	—184	640	640	320	10	20	20	31
"	—052	1280	1280	320	20	20	10	68
"	—174	1280	1280	10	10	40	10	84
"	—047	320	1280	1280	320	10	40	60

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
7-23-69	310136	160	40	1280	20	10	10	43
"	-416	640	320	80	20	10	10	-
"	-310	1280	40	320	20	20	20	61
"	-353	1280	10	1280	1280	10	20	40
"	-409	160	40	40	10	10	10	57
"	-380	320	80	20	10	40	10	76
"	-120	320	20	640	80	10	20	65
"	-053	160	16	<10	20	10	20	76
"	-288	320	320	10	10	10	10	69
"	-253	640	160	80	20	10	10	
"	-255	160	10	40	10	10	10	84
"	-153	10	<10	10	10	10	20	27
"	-316	160	40	40	20	10	10	85
"	-252	1280	1280	40	10	20	<10	
"	-159	320	40	20	20	20	10	52
"	-286	80	20	80	40	10	20	82
"	-354	160	20	10	10	10	<10	57
"	-282	320	320	160	40	20	<10	47
"	-200	320	20	20	<10	10	10	73
"	-166	1280	<10	20	<10	10	10	27
"	-118	640	320	20	10	20	<10	73
"	-091	1280	320	<10	10	10	10	88
"	-482	320	80	160	20	10	10	78
"	-304	80	20	1280	160	10	10	88
"	-056	160	20	40	20	10	10	82
"	-112	160	10	160	40	10	10	72
"	-086	40	20	<10	<10	20	10	56
"	-340	1280	1280	10	10	10	<10	62
"	-480	160	40	1280	1280	10	10	66
"	-035	640	40	80	20	20	20	50
"	-055	80	40	80	20	20	10	

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
7-23-69	310162	1280	640	20	<10	20	10	75
"	-158	640	40	40	40	10	10	69
"	-363	1280	10	80	40	10	10	68
"	-375	40	10	<10	<10	10	<10	81
"	-303	160	10	640	160	<10	10	81
"	-345	160	20	320	160	20	20	46
"	-443	320	20	10	10	10	<10	68
"	-495	40	10	10	<10	<10	<10	81
"	-335	320	320	1280	640	10	20	40
"	-119	320	10	320	40	10	10	56
7-24-69	440383	160	40	<10	10	10	<10	74
"	-117	40	10	<10	10	10	10	69
"	-371	640	320	640	320	10	10	57
"	-362	160	10	20	20	10	20	60
"	-152	40	20	40	20	10	10	69
"	-355	640	160	80	40	10	<10	54
"	-200	160	10	20	10	20	10	30
"	-339	320	80	160	80	10	10	91
"	-182	160	80	160	80	10	10	59
"	-397	640	640	20	40	80	10	63
"	-384	40	20	10	10	10	10	74
"	-356	640	640	10	10	20	<10	48
"	-195	160	160	20	10	10	10	87
"	-375	160	160	40	40	10	10	
"	-199	40	<10	<10	<10	<10	<10	1
"	-183	640	640	160	20	40	10	
"	-348	640	40	40	20	20	10	42
"	-176	80	80	40	20	40	20	35
"	-365	80	10	80	80	10	<10	
"	-113	320	80	10	10	20	10	36

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
7-24-69	440107	640	160	640	320	10	10	40
"	-085	80	20	10	10	<10	10	63
"	-284	80	<10	10	10	<10	10	
"	-249	1280	640	320	40	20	10	
"	-245	80	80	20	20	10	10	
"	-216	160	80	20	40	10	<10	
"	-096	640	80	10	20	40	10	58
"	-255	160	160	10	20	20	10	
"	-039	80	10	320	640	10	10	49
"	-202	160	40	20	20	10	10	
"	-066	160	20	40	40	10	10	30
"	-054	160	80	80	20	10	10	54
"	-083	40	10	80	20	10	10	
"	-019	1280	1280	40	40	40	10	49
"	-276	640	320	80	80	20	10	
"	-008	160	<10	320	160	10	10	
"	-037	160	160	320	160	10	40	69
"	-056	160	20	320	80	20	20	66
"	-064	320	80	320	320	20	40	26
"	-076	40	10	80	40	10	10	51
"	-023	160	80	160	160	20	20	52
"	-252	320	20	40	40	20	<10	
"	-084	40	10	160	320	20	20	29
"	-065	160	20	10	20	20	10	
"	-299	160	20	80	160	10	20	
"	-298	1280	1280	40	40	40	10	
"	-208	1280	640	10	20	20	10	
"	-283	320	40	40	160	10	10	
"	-282	160	20	160	80	20	10	
"	-294	320	80	80	40	10	10	
"	-392	320	160	80	80	40	10	64

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
7-24-69	440390	160	<10	640	10	10	10	58
"	-326	20	<10	10	20	20	10	80
"	-126	640	40	40	20	10	40	26
"	-423	320	160	80	20	10	40	41
"	-422	1280	640	20	20	20	10	24
"	-451	160	10	80	80	80	10	48
"	-421	80	10	20	20	40	10	57
"	-443	640	160	20	10	10	10	
"	-350	160	10	<10	20	10	20	57
"	-398	640	640	20	40	10	10	66
"	-328	80	160	160	80	80	10	41
"	-184	640	640	20	40	10	10	52
"	-330	320	40	160	160	20	80	40
"	-379	20	20	20	20	10	10	49
"	-378	640	640	80	80	10	10	50
"	-112	640	160	80	80	20	10	
"	-438	80	1280	40	10	20	<10	14
"	-431	1280	1280	80	20	10	10	66
"	-186	40	<10	10	10	10	<10	22
"	-373	20	<10	10	10	10	<10	20
"	-440	1280	1280	40	40	10	10	16
7-25-69	550244	10	80	320	10	20	10	57
"	-362	320	640	20	10	10	10	
"	-400	320	80	320	40	10	10	
"	-238	20	<10	40	20	10	10	21
"	-328	160	160	80	20	40	10	50
"	-269	40	10	20	<10	10	10	91
"	-035	320	320	320	40	10	20	60
"	-105	10	10	80	10	10	10	50
"	-263	160	160	160	20	80	10	31

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
7-25-69	550241	40	20	40	10	20	10	60
"	-042	80	40	160	40	10	<10	-
"	-030	80	20	80	10	10	20	85
"	-101	20	20	80	40	10	10	28
"	-034	80	80	40	<10	40	10	66
"	-052	80	80	80	20	10	10	69
"	-156	10	80	40	10	10	10	74
"	-159	<10	10	80	10	10	10	76
"	-373	40	80	80	<10	20	10	
"	-169	<10	20	20	10	20	20	74
"	-174	320	320	40	10	40	20	57
"	-162	10	20	160	80	10	10	31
"	-161	640	320	160	20	40	20	62
"	-130	40	80	160	160	10	10	48
"	-189	20	20	80	10	<10	10	60
"	-171	160	160	320	80	20	20	69
"	-125	160	20	80	20	20	20	67
"	-180	40	10	320	20	80	20	
"	-179	640	160	160	10	10	10	50
"	-134	20	10	320	40	10	10	87
"	-149	40	10	40	10	10	<10	40
"	-164	20	10	80	20	<10	10	28
"	-154	160	20	80	20	10	10	36
"	-394	40	20	40	10	10	10	2
"	-183	160	10	20	<10	10	10	50
"	-157	1280	1280	160	40	40	10	64
"	-044	160	320	10	<10	20	10	67
"	-239	40	40	40	10	20	20	69
"	-236	40	20	40	10	10	20	62
"	-091	40	10	160	40	10	10	69
"	-025	80	160	40	10	10	10	74

Specimen Date	Specimen #	HAI Titers Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	CF Titers Flu A	Flu B	Trypsin Inhibitory Capacity
7-25-69	550255	160	160	10	<10	10	<10	72
"	-094	40	20	40	10	20	20	31
"	-209	20	10	40	10	<10	10	58
"	-020	20	20	40	10	10	10	45
"	-294	40	40	40	20	20	20	21
"	-112	20	20	80	10	20	20	57
"	-211	20	20	80	10	10	20	64
"	-259	40	20	80	20	10	10	
"	-324	320	320	40	40	10	10	28
"	-205	20	10	320	80	10	20	60
"	-089	40	20	80	40	10	<10	69
"	-285	40	10	160	20	10	10	52
"	-024	80	40	80	20	20	10	48
"	-235	40	40	80	10	20	20	60
"	-249	80	640	80	<10	80	20	57
"	-299	20	10	320	20	20	40	76
"	-194	80	10	40	10	10	10	69
"	-343	40	20	320	40	10	10	4
"	-115	40	40	40	10	20	10	69
"	-051	320	320	80	10	40	10	79
"	-114	160	320	20	10	20	20	40
"	-116	20	20	40	20	10	10	38
"	-085	1280	1280	320	160	40	10	52
"	-041	80	160	40	10	10	20	57
"	-129	20	20	320	20	<10	20	43
"	-059	40	10	80	10	10	20	43
"	-120	40	20	40	10	10	10	48
"	-124	40	20	40	10	10	<10	55
"	-108	160	80	320	40	10	10	31
"	-037	40	20	80	10	20	10	72
"	-192	320	640	40	10	10	20	62

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
7-25-69	550153	20	10	160	20	10	10	74
"	-119	80	80	320	40	<10	10	26
"	-064	80	80	160	20	20	40	79
"	-111	40	20	40	20	10	10	57
7-28-69	110116	20	10	20	10	10	<10	45
"	-103	160	40	40	10	10	10	88
"	-119	80	40	40	10	20	10	40
"	-016	40	10	80	20	10	10	69
"	-035	20	<10	320	20	20	40	36
"	-111	40	<10	20	10	<10	10	64
"	-030	160	320	20	<10	10	10	
"	-184	80	80	160	80	10	10	31
"	-059	160	40	80	20	10	10	7
"	-098	10	<10	40	10	20	20	62
"	-060	640	640	40	10	20	10	67
"	-107	<10	<10	80	20	<10	10	50
"	-100	80	10	10	10	10	10	48
"	-072	20	10	40	10	<10	10	84
"	-036	40	10	20	10	20	10	50
"	-143	80	80	80	20	10	20	45
"	-134	160	160	320	40	20	<10	50
"	-081	40	80	20	10	20	20	19
"	-198	80	80	80	20	20	10	72
"	-045	20	10	40	10	10	10	33
"	-109	20	10	20	10	20	10	16
"	-041	1280	1280	80	10	20	20	74
"	-090	80	20	20	10	20	10	33
"	-123	80	10	160	10	20	10	74
"	-085	40	10	10	<10	10	<10	54
"	-170	10	10	80	10	<10	10	30

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
7-28-69	110468	80	10	1280	160	10	20	10
"	-138	40	10	40	20	10	20	9
"	-112	80	10	160	10	10	10	90
"	-070	20	10	80	10	10	10	51
"	-126	20	20	80	10	<10	10	55
"	-132	40	10	160	20	<10	10	52
"	-071	20	10	160	20	10	10	
"	-151	80	10	80	20	<10	10	21
"	-127	320	640	160	20	10	<10	50
"	-124	20	10	20	10	10	10	43
"	-102	40	20	640	40	10	10	69
"	-169	80	10	80	80			
"	-437	160	160	20	20			
"	-140	80	10	20	10	10	10	84
"	-113	1280	1280	80	20	20	10	33
"	-073	80	10	80	20			
"	-052	80	10	20	20	10	10	19
"	-047	40	<10	40	80	10	10	16
"	-075	40	20	10	<10	10	<10	69
"	-401	80	10	10	<10	10	<10	87
"	-049	80	40	40	40	10	20	52
"	-144	320	10	40	10	20	<10	-
"	-293	20	<10	10	10	<10	10	19
"	-273	80	10	160	40	10	20	19
"	-296	40	10	20	10	10	10	64
"	-499	320	640	320	80			
"	-497	160	40	160	20	<10	<10	-
"	-523	640	640	320	40	20	<10	31
"	-125	160	10	20	10	<10	10	37
"	-435	80	40	10	10	20	10	64
"	-118	40	10	160	40	10	10	49

Specimen Date	Specimen #	HAI Titers Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	CF Titers Flu A	Flu B	Trypsin Inhibitory Capacity
7-28-69	110061	320	10	80	20	10	<10	34
"	-121	160	20	320	320	10	10	-
"	-171	40	20	20	80	10	<10	6
"	-245	1280	320	40	20	20	20	43
"	-237	320	320	40	10	10	20	31
"	-264	20	10	80	20	10	10	25
"	-295	10	<10	160	40	<10	10	12
"	-503	640	640	80	40	20	10	39
"	-275	640	10	40	20	10	20	7
"	-284	160	320	320	20	10	20	43
"	-154	160	80	20	20	10	20	40
"	-288	160	40	40	320	10	<10	6
"	-256	640	640	10	160	20	20	31
"	-277	80	<10	40	10	10	<10	73
"	-268	40	10	320	40	10	20	49
"	-510	20	<10	80	160	10	20	24
"	-269	160	10	80	20	10	10	76
"	-346	160	160	80	40	10	10	55
"	-306	320	80	20	20	20	20	43
"	-485	640	320	40	20	<10	<10	24
"	-465	20	10	80	40	10	20	78
"	-478	320	320	80	40	10	10	4
"	-303	160	10	40	10	20	20	-
"	-448	160	10	40	10	10	10	62
"	-323	80	10	640	160	10	10	48
"	-361	80	40	160	20	20	10	67
"	-444	320	320	160	80	10	10	69
"	-384	640	320	320	20	20	20	31
"	-412	40	20	40	20	10	<10	57
"	-494	320	320	80	20	10	10	42
"	-477	80	40	20	10	20	20	31

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
7-28-69	110338	40	20	320	160	10	10	79
"	-466	40	10	160	40	40	40	64
"	-482	40	10	80	20	10	10	-
"	-372	40	10	40	40	10	20	30
"	-445	40	10	80	40	10	10	42
"	-421	<10	<10	20	20	10	20	-
"	-428	10	<10	40	160	<10	10	12
"	-492	10	<10	1280	1280	10	40	57
"	-374	80	40	20	20	40	20	
"	-396	160	160	80	10	20	20	55
"	-395	20	10	40	<10	10	10	
"	-378	10	10	20	<10	10	10	48
"	-400	1280	640	80	40	20	20	
"	-380	640	640	10	10	-	-	
"	-410	80	10	80	20	10	10	57
"	-327	40	80	40	10	10	10	69
"	-366	160	10	80	10	10	10	-
"	-302	40	10	20	10	10	20	93
"	-345	20	10	160	160	10	20	64
"	-344	160	640	160	40	40	20	-
"	-398	320	80	320	20	20	20	79
"	-359	320	40	20	10	20	20	69
"	-392	40	10	20	10	20	10	50
"	-382	40	<10	10	<10	10	10	26
"	-376	80	10	160	40	10	10	54
"	-308	80	10	40	20	20	20	48
7-29-69	220015	40	10	80	40	10	20	
"	-021	160	80	320	640	10	10	
"	-006	80	40	160	320	10	<10	10
"	-118	640	160	40	160	10	20	76

Specimen Date	Specimen #	HAI Titers Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	CF Titers Flu A	Flu B	Trypsin Inhibitory Capacity
7-29-69	220121	640	320	20	10	10	10	48
"	—131	40	40	640	320	10	10	78
"	—109	40	20	320	80	10	20	74
"	—119	40	80	40	40	<10	10	14
"	—227	20	20	40	40	10	10	
"	—140	160	160	20	20	20	10	48
"	—132	40	40	80	80	10	10	48
"	—039	160	40	40	160	10	<10	91
"	—022	640	160	80	20	20	10	53
"	—020	80	80	80	40	20	<10	70
"	—016	40	10	640	320	10	10	63
"	—095	20	10	160	80	10	10	49
"	—250	640	640	40	80	40	20	70
"	—248	320	80	160	160	10	<10	12
"	—051	20	10	40	40	10	10	62
"	—067	640	160	80	40	20	10	90
"	—001	80	80	20	20	10	<10	61
"	—003	20	10	80	40	10	20	70
"	—084	160	20	20	40	10	10	65
"	—014	20	20	320	80	10	10	42
"	—041	20	10	80	20	10	10	
"	—241	1280	160	80	40	20	10	
"	—056	320	160	40	40	20	10	75
"	—093	160	10	160	160	10	20	
"	—069	80	10	80	80	10	10	
"	—042	80	20	10	20	10	10	
"	—011	320	10	320	160	20	40	60
"	—068	80	20	160	40	10	20	40
"	—083	320	320	160	80	10	10	0
"	—004	160	80	80	80	10	10	72
"	—023	80	80	80	80	10	10	46

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
7-29-69	220244	80	40	160	80	20	10	60
"	-087	10	<10	80	80	<10	10	
"	-116	80	20	80	80	10	10	
"	-097	1280	1280	640	80	40	10	85
"	-002	40	10	160	80	10	10	88
"	-143	160	80	160	160	20	10	51
"	-226	320	160	80	40	10	10	
"	-130	640	640	80	40	10	10	81
"	-243	640	640	320	80	10	20	
"	-117	80	20	160	160	10	20	
"	-277	320	40	80	160	10	10	51
"	-508	40	10	40	160	10	10	
"	-513	40	20	40	160	10	<10	
"	-376	320	320	160	80	20	10	
"	-437	80	20	320	320	10	10	
"	-490	80	40	320	640	10	10	
"	-283	320	40	320	160	10	10	
"	-412	80	80	80	80	10	10	
"	-408	1280	640	10	10	<10	<10	
"	-368	160	640	320	80	10	10	53
"	-421	10	<10	80	40	10	20	
"	-507	80	80	320	160	20	20	
"	-291	40	<10	160	80	10	40	
"	-445	80	10	640	640	20	80	95
"	-432	320	160	80	80	20	10	
"	-499	640	20	640	160	20	10	
"	-497	40	20	160	40	10	10	72
"	-433	1280	1280	640	640	20	20	90
"	-410	320	320	640	640	10	10	30
"	-379	160	20	40	160	10	<10	48
"	-447	320	80	40	40	20	10	62

Specimen Date	Specimen #	HAI Titers Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	CF Titers Flu A	Flu B	Trypsin Inhibitory Capacity
7-29-69	220099	320	80	40	10	40	10	21
"	-362	640	160	160	80	10	10	19
"	-098	160	10	20	20	10	10	75
"	-136	160	20	80	160	40	10	38
"	-301	80	40	160	80	10	20	
"	-443	160	640	80	160	40	<10	
"	-455	80	10	160	20	40	20	55
"	-210	160	40	40	20	10	10	38
"	-431	160	20	80	80	10	20	59
"	-416	640	160	160	80	20	20	80
"	-456	10	10	80	80	10	10	15
"	-255	80	10	80	80	10	10	58
"	-303	80	20	80	80	10	10	
"	-271	40	40	20	10	10	10	33
"	-393	80	10	40	40	10	10	56
"	-262	80	10	20	40	10	10	49
7-30-69	330278	80	10	40	80	<10	<10	31
"	-122	640	40	160	320	10	10	
"	-086	160	10	640	160	20	20	81
"	-147	80	10	80	40	10	10	60
"	-157	640	160	160	160	20	10	70
"	-159	320	10	1280	320	20	20	
"	-139	160	10	320	160	<10	10	62
"	-187	160	320	320	80	10	20	76
"	-132	160	20	80	80	20	10	60
"	-123	160	10	320	160	20	20	
"	-193	80	20	40	40	10	10	74
"	-153	640	80	160	80	10	10	85
"	-133	640	320	640	80	20	20	60
"	-172	80	10	80	40	10	10	

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
7-30-69	330201	320	10	80	40	10	10	72
"	-191	1280	640	320	160	10	20	76
"	-141	320	40	640	160	10	10	39
"	-189	160	20	80	40	10	10	72
"	-155	640	80	640	320	10	40	
"	-255	40	10	80	20	10	10	58
"	-127	640	640	40	20	40	10	
"	-289	80	10	40	20	20	10	48
"	-130	40	10	640	40	10	40	70
"	-129	320	160	160	160	10	20	67
"	-009	320	40	320	320	10	10	81
"	-082	80	20	160	80	10	10	71
"	-186	160	160	40	20	10	20	79
"	-103	80	40	320	80	10	10	64
"	-061	160	10	80	80	10	20	64
"	-077	40	20	80	80	10	20	65
"	-080	160	320	640	80	20	<10	76
"	-115	320	10	320	160	10	10	71
"	-044	40	20	160	80	10	10	86
"	-113	320	40	40	80	20	20	4
"	-097	320	10	80	80	20	20	58
"	-348	80	10	40	80	<10	<10	72
"	-350	320	320	80	80	10	20	63
"	-095	320	160	40	80	20	10	58
"	-342	1280	1280	320	80	10	10	40
"	-017	40	10	160	80	10	20	42
"	-054	160	10	160	160	10	40	28
"	-051	80	10	160	160	10	10	26
"	-114	1280	10	160	80	10	10	33
"	-043	80	40	320	80	10	10	60
"	-116	1280	1280	160	80	20	40	67

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
7-30-69	330119	320	320	80	80	10	10	50
"	-015	640	40	320	160	20	20	74
"	-064	160	20	160	80	10	20	86
"	-069	80	40	80	80	20	20	70
"	-004	20	10	40	40	10	<10	69
"	-366	640	10	160	10	10	<10	24
"	-102	1280	1280	10	10	40	10	15
"	-365	80	20	640	80	10	10	79
"	-087	160	20	320	320	10	10	54
"	-314	80	10	160	320	10	10	85
"	-305	1280	1280	640	640	40	10	65
"	-284	40	10	40	<10	10	10	63
"	-078	20	10	80	80	10	10	70
"	-062	320	10	80	160	10	10	70
"	-065	320	10	320	80	10	10	16
"	-325	640	640	160	80	40	10	74
"	-315	40	<10	160	80	10	10	51
"	-273	160	80	320	160	20	10	76
"	-282	80	<10	320	80	20	20	49
"	-323	80	10	40	160	10	<10	69
"	-239	160	80	40	80	10	<10	60
"	-094	640	640	1280	320	10	10	37
"	-003	1280	1280	160	80	40	10	65
"	-092	160	10	160	160	10	<10	65
"	-318	40	10	80	80	10	10	67
"	-076	160	20	80	160	20	10	39
"	-083	10	10	80	80	10	10	63
"	-316	80	40	40	40	10	<10	83
"	-050	1280	640	1280	1280	10	20	19
"	-406	320	640	320	320	40	10	55
"	-381	160	160	320	1280	10	10	24

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
7-30-69	330028	320	10	640	640	10	20	53
"	-169	80	10	320	160	10	10	33
"	-429	1280	1280	40	160	10	10	81
"	-161	640	80	160	320	10	10	70
"	-412	160	80	320	320	10	10	
"	-165	640	20	640	160	40	20	78
"	-420	1280	1280	320	320	10	10	56
"	-431	160	160	320	320	10	10	14
"	-029	40	10	640	640	10	10	10
"	-403	320	20	320	320	20	10	70
"	-163	80	20	160	160	10	10	7
"	-415	320	40	40	80	10	10	40
"	-404	160	20	20	40	10	20	
"	-042	160	160	40	40	10	10	44
"	-402	1280	40	1280	1280	20	40	42
"	-399	1280	10	80	80	10	10	6
"	-168	160	10	20	20	10	<10	68
"	-048	80	10	160	40	10	10	50
"	-006	1280	1280	160	160	20	10	78
"	-337	40	20	40	80	10	10	24
"	-049	640	320	20	160	10	10	78
"	-335	80	10	80	40	10	10	85
"	-110	320	10	20	10	20	20	
"	-010	40	40	40	20	10	<10	86
"	-331	40	10	20	10	10	10	72
"	-107	40	10	160	10	20	10	32
"	-032	160	20	80	20	20	10	60
"	-215	1280	640	40	20	20	10	19
"	-330	320	10	320	320	10	80	40
"	-329	40	10	80	40	10	10	55
"	-300	40	10	320	640	10	10	67

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
7-30-69	330254	80	40	40	40	10	10	76
"	-242	80	20	80	80	20	20	
"	-241	160	160	80	160	10	10	67
"	-223	320	10	1280	1280	10	40	58
"	-333	160	10	80	40	10	10	27

Specimen Date	Specimen #	HAI Titers Flu A-2 Japan	HAI Titers Flu A-2 Hong Kong	HAI Titers Flu B Md.	HAI Titers Flu B Mass.	CF Titers Flu A	CF Titers Flu B	Trypsin Inhibitory Capacity
8-1-69	550047	<10	<10	160	<10	20	20	73
"	-074	160	<10	640	640	10	320	6.5
"	-061	640	40	10	10	80	10	57
"	-069	640	320	20	40	10	10	65
"	-059	320	80	10	<10	10	<10	48
"	-029	20	10	<10	<10	20	10	81
"	-096	160	<10	320	1280	<10	20	62
"	-062	320	<10	20	<10	10	<10	69
"	-011	320	20	10	10	40	10	57
"	-065	320	80	80	10	10	20	87
"	-067	160	10	10	10	<10	<10	73
"	-191	20	10	20	20	<10	<10	63
"	-055	40	<10	40	<10	<10	20	70
"	-122	40	10	160	10	20	20	71
"	-102	640	<10	40	20	40	10	52
"	-019	160	10	80	160	20	10	41
"	-046	320	10	20	10	20	10	70
"	-152	640	40	10	10	20	<10	41
"	-121	20	<10	<10	<10	10	10	73
"	-037	320	<10	<10	10	20	10	91
"	-064	320	10	40	40	20	<10	87
"	-099	160	<10	20	20	10	10	86
"	-182	160	10	20	40	10	20	79
"	-076	160	10	20	20	<10	20	85
"	-088	160	10	80	20	10	40	84
"	-098	80	10	10	10	20	10	36
"	-073	320	80	160	640	20	10	68
"	-093	40	<10	<10	<10	20	10	47
"	-429	40	40	20	40	10	20	80
"	-219	320	10	80	80			86
"	-453	160	640	10	<10	20	<10	82

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
8-1-69	550216	80	<10	20	40	20	40	7
"	-229	40	<10	10	20	20	20	48
"	-209	80	10	20	40	20	20	84
"	-410	160	320	20	10	20	10	64
"	-303	40	10	<10	10	20	<10	64
"	-357	80	<10	640	640			63
"	-308	80	<10	20	10			61
"	-348	20	<10	<10	10			65
"	-285	40	<10	10	10	20	20	
"	-347	80	40	10	10	20	20	55
"	-336	160	320	10	10			
"	-226	80	<10	80	20	20	10	71
"	-278	80	20	320	640	20	20	68
"	-251	160	320	10	10	20	10	67
"	-234	640	1280	10	20	40	20	46
"	-345	40	<10	20	80			78
"	-222	320	<10	10	20			61
"	-352	40	10	20	10	20	10	63
"	-243	20	10	<10	<10	20	<10	74
"	-328	160	10	80	80			67
"	-455	40	640	40	40			66
"	-390	80	10	10	10	10	10	30
"	-422	160	10	80	20	20	<10	38
"	-368	40	<10	<10	<10	10	<10	62
"	-321	80	<10	40	40	10	10	61
"	-359	640	80	20	20	10	10	55
"	-249	80	10	20	10	10	20	71
"	-295	1280	1280	10	10			43
"	-252	1280	1280	10	40	20	20	42
"	-223	160	160	10	10	20	10	77
"	-129	80	20	160	20	20	20	77

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
8-1-69	550193	40	10	160	320	10	20	85
"	-136	80	<10	40	10	10	10	17
"	-130	40	10	10	10	10	10	68
"	-147	20	80	<10	<10	10	10	93
"	-173	320	1280	10	10	10	10	68
"	-198	80	80	40	40	10	20	51
"	-149	160	640	10	20	20	20	65
"	-150	320	1280	10	10	20	20	37
"	-163	80	320	20	10	20	20	63
"	-148	40	20	40	160	10	20	82
8-4-69	110252	320	80	20	10	20	10	
"	-296	320	20	20	40	20	10	
"	-319	80	40	10	10	20	10	
"	-258	20	<10	20	20	10	10	
"	-383	20	10	10	10	10	10	
"	-387	40	10	10	10	10	10	
"	-234	80	160	320	640	80	40	
"	-325	80	160	<10	<10	160	20	
"	-318	320	640	20	10	40	10	
"	-398	320	160	40	10	10	10	
"	-249	160	40	20	20	160	10	
"	-069	160	20	40	320	640	20	
"	-340	80	40	10	20	40	20	
"	-382	80	<10	80	20	20	20	
"	-392	320	10	10	10	20	40	
"	-355	40	<10	320	640	10	10	
"	-039	20	10	40	40	10	20	
"	-361	80	10	10	10	20	<10	
"	-354	1280	640	10	<10	20	10	
"	-342	40	40	80	80	40	20	

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
8-4-69	110225	1280	160	10	40	40	10	
"	-390	1280	320	20	80	10	40	
"	-343	80	80	20	160	80	10	
"	-250	40	80	<10	<10	40	80	
"	-276	160	160	20	10	20	10	
"	-257	320	80	<10	10	80	10	
"	-356	1280	640	<10	<10	20	<10	
"	-377	20	10	10	10	10	10	
"	-397	160	<10	40	80	20	20	
"	-301	160	10	10	10	40	10	
"	-376	160	<10	40	20	40	10	
"	-026	80	320	40	10	40	<10	62
"	-473	80	20	10	10	40	10	64
"	-251	320	10	10	10	10	<10	71
"	-018	40	<10	20	10	20	40	65
"	-464	160	10	10	10	10	20	64
"	-131	80	40	160	80	20	20	71
"	-055	20	<10	80	80	10	20	75
"	-468	20	<10	<10	<10	10	20	23
"	-428	160	10	10	10	10	10	21
"	-060	40	10	<10	<10	10	<10	55
"	-442	320	10	10	20	20	20	71
"	-412	320	640	<10	<10	40	20	74
"	-219	40	10	40	80	20	10	36
"	-417	40	10	10	<10	20	20	3
"	-414	160	160	10	10	40	20	68
"	-411	320	1280	80	160	40	10	71
"	-432	160	320	<10	10	10	10	65
"	-204	1280	1280	<10	<10	20	<10	48
"	-469	1280	160	10	10	10	10	54
"	-238	640	640	10	10	10	<10	59

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
8-4-69	110013	80	10	10	10	10	20	61
"	-038	80	10	10	10	20	10	51
"	-443	40	<10	10	10	10	10	84
"	-140	80	20	80	40	10	10	72
"	-062	640	320	320	320	40	20	88
"	-157	80	160	20	<10	20	20	69
"	-407	40	10	10	10	10	20	57
"	-409	40	<10	20	10	10	10	78
"	-404	80	40	20	40	10	10	13
"	-176	40	10	20	40	10	20	83
"	-426	40	<10	10	10	10	20	59
"	-178	640	160	640	20	40	20	49
"	-085	160	320	10	<10	20	10	59
"	-200	160	80	20	80	20	10	70
"	-134	40	10	80	320	20	20	75
"	-266	1280	320	40	<10	20	20	63
"	-127	1280	10	10	<10	40	<10	70
"	-074	80	10	10	20	20	20	62
"	-188	80	10	20	10	20	20	80
"	-456	640	1280	10	10	20	20	55
"	-272	1280	320	10	<10	20	20	68
"	-058	40	10	20	40	20	20	79
"	-072	320	640	10	10	40	10	91
"	-065	40	10	10	<10	10	10	65
"	-089	640	320	80	40	<10	<10	55
"	-240	<10	80	<10	<10	20	<10	69
"	-187	10	80	<10	<10	10	10	46
"	-123	20	80	10	10	10	20	44
"	-185	640	640	<10	<10	20	<10	57
"	-429	40	160	10	10	10	10	5
"	-044	40	80	<10	<10	10	20	71

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
8-4-69	110190	1280	640	320	40	20	20	27
"	-061	640	160	<10	10	20	10	72
"	-248	160	320	<10	<10	10	10	46
"	-138	80	160	<10	<10	10	10	80
"	-118	20	160	40	10	20	10	87
"	-242	40	160	320	80	20	10	67
"	-137	1280	160	80	80	20	20	50
"	-040	160	10	<10	<10	20	10	76
"	-002	20	10	320	80	20	20	62
"	-431	40	80	<10	<10	20	10	87
8-5-69	220128	40	10	10	10			57
"	-050	40	40	20	10	10	10	59
"	-078	40	10	1280	1280	20	20	57
"	-047	40	40	640	160	10	10	69
"	-155	80	40	40	10	40	40	75
"	-054	160	10	10	<10	10	10	75
"	-064	160	10	640	640	20	40	75
"	-145	20	10	20	10	10	10	88
"	-029	40	20	40	40	160	80	85
"	-166	320	10	320	80	40	40	49
"	-087	80	10	80	160	20	40	74
"	-045	40	320	20	10	80	40	70
"	-030	160	80	320	80	80	80	25
"	-063	80	80	10	<10	20	10	85
"	-066	1280	1280	160	10	40	10	77
"	-041	160	80	<10	<10	40	10	79
"	-071	40	10	80	20	40	20	
"	-167	40	10	1280	40	10	40	81
"	-060	1280	640	160	10	40	20	65
"	-090	40	10	20	10	20	<10	73

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
8-5-69	220097	1280	320	320	80	80	20	65
"	-043	80	<10	160	20	10	10	76
"	-069	40	10	40	10	20	10	30
"	-086	40	10	80	10	10	10	59
"	-031	320	320	10	10	40	20	65
"	-089	160	80	40	80	40	20	62
"	-070	640	640	40	10	10	10	41
"	-072	20	10	<10	<10	20	10	62
"	-091	40	10	640	320	40	80	73
"	-256	80	10	160	<10	10	160	73
"	-188	20	<10	160	80	<10	20	60
"	-176	160	10	80	80	20	20	75
"	-484	80	10	20	10	10	10	66
"	-408	160	80	20	10	20	10	62
"	-099	160	40	10	<10	10	10	65
"	-057	320	160	<10	<10	40	10	92
"	-074	20	10	20	10	20	20	64
"	-417	160	80	20	10	10	20	71
"	-428	160	320	40	10	20	20	
"	-446	80	10	<10	<10	10	<10	80
"	-403	40	<10	40	<10	10	20	68
"	-413	320	80	<10	<10	20	<10	68
"	-448	1280	1280	160	80	40	20	84
"	-468	40	10	<10	<10	10	10	52
"	-491	80	10	80	40	10	20	67
"	-049	640	1280	10	<10	20	10	74
"	-475	80	10	10	10	10	10	85
"	-493	1280	1280	40	20	20	20	85
"	-100	80	20	40	20	20	10	64
"	-406	1280	160	1280	640	40	20	52
"	-496	10	<10	<10	<10	10	10	44

Specimen Date	Specimen #	HAI Titers Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	CF Titers Flu A	Flu B	Trypsin Inhibitory Capacity
8-5-69	220472	160	10	40	10	10	20	83
"	-462	80	<10	80	<10	10	40	63
"	-447	160	<10	80	<10	10	20	66
"	-450	80	160	40	10	20	20	90
"	-411	320	80	10	<10	20	10	59
"	-402	160	160	10	<10	10	20	69
"	-401	80	80	10	<10	10	10	63
"	-042	160	40	20	<10	10	<10	72
"	-477	80	20	160	80	20	20	37
"	-495	160	20	10	20	10	10	86
"	-407	80	<10	<10	<10	<10	<10	87
"	-412	640	640	<10	<10	10	<10	62
"	-286	160	20	20	40	20	10	81
"	-161	80	10	10	10	40	10	
"	-296	40	<10	640	10	20	40	
"	-117	80	<10	80	10	20	10	
"	-162	640	320	10	10	160	10	
"	-152	160	20	40	10	40	20	87
"	-210	80	10	10	<10	10	10	94
"	-187	80	10	10	<10	20	10	
"	-518	320	640	80	10	10	10	85
"	-124	40	10	40	160	20	80	75
"	-121	320	1280	<10	<10	40	<10	
"	-101	1280	1280	160	20	160	20	
"	-172	80	20	10	10	20	10	
"	-230	80	160	10	10	40	10	59
"	-258	80	10	160	320	10	10	
"	-280	80	20	160	160	<10	20	
"	-299	40	<10	80	80	10	80	
"	-213	40	10	40	20	20	10	
"	-209	160	40	10	<10	80	20	

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
8-5-69	220115	80	10	40	20	40	20	
"	—111	80	20	10	10	20	10	
"	—278	80	80	10	10	40	40	
"	—138	80	10	20	10	20	40	
"	—520	20	10	10	10	10	10	
"	—244	640	160	20	10	80	20	
"	—284	160	80	320	40	40	80	
"	—151	40	10	40	10	10	20	
"	—250	20	<10	160	80	<10	10	
"	—283	320	20	10	<10	20	20	
"	—376	80	160	10	<10	40	20	
"	—304	160	80	160	20	10	20	
"	—305	160	80	40	<10	10	10	
"	—352	320	40	40	10	40	10	
"	—314	160	160	10	10	10	10	65
"	—316	160	20	10	<10	10	10	92
"	—568	80	40	<10	<10	20	10	67
"	—347	160	160	10	10	10	10	83
"	—367	20	10	160	160	10	20	
"	—379	160	<10	80	10	10	10	85
"	—324	80	10	40	10	10	20	67
"	—517	40	20	10	<10	20	20	
"	—400	20	<10	<10	<10	10	<10	85
"	—366	40	320	10	<10	40	20	73
"	—303	320	160	<10	<10	20	<10	66
"	—334	80	10	80	80	20	20	77
"	—370	10	<10	80	10	10	10	80
"	—375	320	320	80	10	40	20	68
"	—355	20	10	40	40	10	10	78
"	—369	80	10	160	40	<10	20	78
"	—399	40	<10	160	20	20	20	62

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
8-5-69	220372	40	10	10	10	10	320	94
"	—306	20	<10	1280	640	20	160	67
"	—521	40	<10	80	20	10	20	84
"	—529	20	10	640	40	10	10	84
"	—392	40	10	20	10	10	20	78
"	—302	320	160	160	80	20	10	49
"	—528	80	160	<10	<10	10	<10	84
"	—362	80	<10	20	<10	10	10	64
"	—378	80	10	40	20	20	20	80
"	—350	40	10	40	10	10	10	58
"	—555	640	1280	160	20	80	20	55
"	—561	640	320	10	<10	20	10	80
"	—550	80	<10	10	10	20	40	28
"	—533	1280	1280	20	20	40	20	39
"	—377	40	20	10	<10	10	10	7
"	—341	80	20	<10	<10	10	<10	9
"	—354	320	20	40	10	20	40	64
"	—381	80	<10	20	<10	10	10	29
"	—356	640	320	40	20	10	10	31
"	—320	40	10	10	<10	10	10	57
"	—382	640	20	320	320	10	40	74
"	—371	160	40	80	10	10	10	67
"	—344	160	<10	80	<10	10	20	65
"	—207	80	<10	160	160	20	40	70
"	—140	640	640	<10	<10	20	20	67
"	—183	640	320	320	20	20	20	49
"	—200	80	80	40	10	20	40	68
"	—285	1280	1280	160	80	20	10	71
"	—133	80	<10	160	20	10	20	62
"	—114	20	10	20	20	10	20	50
"	—136	160	10	10	<10	20	20	63

Specimen Date	Specimen #	HAI Titers Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	CF Titers Flu A	Flu B	Trypsin Inhibitory Capacity
8-5-69	220112	80	20	10	10	40	20	75
"	—173	10	10	20	10	10	10	57
"	—260	10	<10	<10	<10	10	<10	41
"	—160	320	320	20	10	10	10	91
"	—149	320	20	160	80	40	20	73
"	—539	40	10	320	10	10	20	75
"	—211	160	20	160	80	20	20	72
"	—255	40	<10	40	<10	20	40	67
"	—189	20	<10	<10	<10	10	<10	
"	—221	160	10	640	160	20	40	70
"	—233	<10	80	160	<10	10	20	73
"	—153	80	<10	<10	<10	10	<10	65
"	—253	80	20	40	20	10	20	43
"	—113	40	10	20	<10	10	10	85
"	—224	320	<10	40	<10	10	10	80
"	—257	160	20	640	40	10	40	63
8-6-69	330186	80	20	20	<10	10	10	42
"	—104	80	10	10	20	10	10	51
"	—024	160	20	20	10	10	10	73
"	—422	20	20	320	320	20	20	79
"	—041	80	<10	<10	<10	10	20	79
"	—161	1280	1280	10	<10	20	10	88
"	—048	320	20	<10	<10	10	10	59
"	—132	80	<10	40	40	20	20	60
"	—037	640	640	40	40	10	10	68
"	—195	40	10	20	10	10	10	73
"	—026	20	10	20	10	20	20	70
"	—054	160	160	<10	10	10	<10	74
"	—123	40	10	<10	<10	10	<10	90
"	—203	160	10	20	20	10	10	72

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
8-6-69	330202	40	10	80	10	10	20	80
"	-427	10	10	80	80	20	20	55
"	-138	640	1280	40	20	640	40	68
"	-413	80	40	10	<10	10	20	93
"	-015	160	40	40	20	<10	10	79
"	-127	40	<10	<10	<10	10	10	78
"	-356	40	<10	80	20	10	10	73
"	-130	640	160	20	20	20	20	67
"	-036	80	320	10	<10	10	10	75
"	-018	160	40	320	160	10	20	72
"	-108	320	160	10	<10	20	40	70
"	-137	640	640	10	<10	10	20	72
"	-460	640	40	20	<10	20	10	75
"	-152	40	10	10	10	20	40	75
"	-148	20	10	20	10	20	10	64
"	-033	80	10	20	40	<10	10	85
"	-164	40	10	<10	<10	20	10	66
"	-158	160	10	40	40	40	40	53
"	-179	20	<10	80	10	20	10	73
"	-467	160	10	10	<10	10	20	70
"	-080	640	80	320	160	40	40	65
"	-206	640	320	40	40	40	20	81
"	-114	40	10	80	20	20	40	77
"	-189	320	80	80	20	—	—	43
"	-191	1280	1280	<10	<10	20	20	76
"	-140	1280	640	160	10	20	20	82
"	-090	20	20	20	10	10	10	67
"	-149	80	20	40	10	40	10	81
"	-107	1280	640	<10	<10	20	<10	80
"	-192	80	20	<10	<10	20	<10	76
"	-175	40	10	20	10	20	20	78

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
8-6-71	330270	320	640	80	80	20	40	66
"	-081	1280	1280	10	10	40	20	83
"	-047	640	640	40	40	10	10	89
"	-347	1280	640	20	80	10	10	76
"	-239	320	160	20	40	10	10	88
"	-296	640	640	10	40	20	10	69
"	-247	640	320	10	20	10	10	81
"	-120	1280	1280	320	160	40	20	81
"	-387	1280	640	<10	<10	20	10	76
"	-128	160	10	10	20	20	40	77
"	-068	40	10	<10	<10	10	<10	87
"	-464	80	10	10	<10	20	10	73
"	-176	160	10	20	10	10	10	86
"	-082	160	20	40	10	20	10	89
"	-049	80	<10	20	20	10	10	56
"	-232	40	<10	80	20	10	40	88
"	-046	160	10	40	<10	10	20	74
"	-260	20	10	10	<10	20	10	85
"	-472	80	<10	<10	<10	640	10	88
"	-271	20	<10	<10	<10	640	40	81
"	-087	160	40	10	<10	10	10	86
"	-310	40	10	20	40	640	20	75
"	-267	40	10	10	10	10	10	67
"	-234	160	10	20	20	20	10	90
"	-135	40	<10	80	20	10	10	70
"	-429	160	10	10	20	20	10	88
"	-142	640	320	<10	<10	10	<10	82
"	-445	320	320	40	<10	640	10	86
"	-139	80	20	10	10	10	10	69
"	-210	40	10	10	10	10	<10	70
"	-159	160	10	40	20	10	20	70

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
8-6-69	330038	160	80	20	20	20	40	74
"	—052	640	320	20	10	20	10	71
"	—086	320	80	20	<10	80	20	83
"	—007	40	<10	20	10	10	10	66
"	—319	40	10	<10	<10	20	<10	
"	—032	80	10	20	20	160	20	89
"	—303	320	80	40	20	20	10	81
"	—156	80	20	10	10	10	10	72
"	—045	320	40	10	<10	160	10	65
"	—163	1280	1280	<10	<10	80	<10	66
"	—162	320	160	10	<10	20	<10	66
"	—385	1280	1280	10	10	40	20	65
"	—455	80	20	40	20	10	10	
"	—308	20	10	40	10	20	20	78
"	—307	40	10	20	40	20	10	85
"	—009	640	<10	10	<10	40	20	
"	—066	80	<10	<10	<10	10	<10	
"	—492	80	10	20	40	20	10	77
"	—079	40	20	10	10	20	10	60
"	—349	320	10	80	40	20	80	82
"	—063	20	<10	<10	<10	20	20	88
"	—261	40	10	40	10	10	10	60
"	—396	320	20	10	10	10	10	59
"	—470	320	10	20	10	20	10	57
"	—029	640	640	20	20	10	10	67
"	—446	20	10	40	10	10	10	63
"	—334	80	20	20	10	20	10	88
"	—298	320	10	10	10	20	10	67
"	—433	40	160	10	<10	640	10	73
"	—339	40	<10	<10	<10	10	<10	82
"	—304	320	<10	10	10	20	10	78

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
8-6-69	330028	320	640	160	20	40	10	77
"	-253	1280	640	10	10	20	20	70
"	-057	80	10	40	10	20	20	74
"	-023	80	10	10	10	20	20	22
"	-235	80	20	10	10	20	10	70
"	-229	320	10	80	10	20	10	81
"	-283	10	<10	10	<10	10	10	47
"	-058	40	10	40	20	10	10	76
"	-174	20	<10	10	10	10	40	63
"	-431	160	<10	40	160	10	10	46
"	-213	20	<10	160	160	10	20	70
"	-027	40	20	20	160	10	20	65
"	-383	40	20	10	20	20	40	59
"	-207	40	10	<10	<10	20	20	85
"	-125	320	320	<10	20	20	10	82
"	-077	160	10	<10	<10	40	20	
"	-071	40	20	<10	10	20	10	81
"	-078	1280	640	10	10	20	10	79
"	-040	20	<10	<10	<10	10	<10	76
"	-121	80	10	10	20	10	20	88
"	-016	160	10	10	20	20	20	79
"	-034	80	20	20	20	20	20	81
"	-251	40	<10	40	40	10	40	86
"	-276	320	80	<10	<10	20	<10	83
"	-371	40	10	40	20	10	20	89
"	-020	80	10	20	10	10	10	84
"	-313	160	10	<10	<10	40	<10	88
"	-074	40	10	160	10	20	20	94
"	-457	640	640	80	160	40	20	
"	-343	640	640	40	20	10	10	83
"	-188	640	320	640	640	20	40	87

Specimen Date	Specimen #	HAI Titers Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	CF Titers Flu A	Flu B	Trypsin Inhibitory Capacity
8-6-69	330265	160	10	640	640	40	20	77
"	-354	160	10	160	80	40	20	35
"	-069	40	10	20	<10	20	10	65
"	-452	160	10	20	<10	20	10	56
"	-262	160	80	<10	10	20	10	61
"	-025	20	<10	<10	<10	10	<10	65
"	-067	320	40	<10	<10	80	20	53
"	-417	320	10	40	20	40	20	83
"	-181	40	10	640	640	20	20	82
"	-241	40	10	640	160	40	40	78
"	-154	1280	1280	80	40	40	20	67
"	-350	320	640	40	40	40	10	82
"	-147	160	10	10	10	80	20	
"	-366	160	40	<10	<10	40	<10	67
"	-061	80	<10	20	10	—	—	
"	-450	320	<10	640	160	10	10	72
"	-211	1280	160	20	10	80	20	81
"	-326	1280	640	40	20	20	20	69
"	-200	1280	1280	80	20	160	20	79
"	-408	40	10	20	<10	80	10	
"	-273	10	10	10	10	10	10	
"	-364	40	10	<10	<10	20	<10	69
"	-477	20	10	10	10	80	20	
"	-073	160	160	1280	1280	20	40	71
"	-204	80	10	40	20	10	10	72
"	-463	40	10	10	10	40	20	
"	-146	20	10	10	10	40	20	75
8-7-69	440131	10	10	20	10	10	10	79
"	-218	160	80	640	640	20	320	86
"	-434	320	10	20	40	20	20	88

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
8-7-69	440348	320	<10	20	10	20	10	66
"	-071	40	10	20	10	10	10	83
"	-046	40	10	10	<10	10	10	78
"	-266	160	10	10	<10	20	10	85
"	-206	80	160	20	20	10	10	84
"	-042	1280	320	10	10	20	10	70
"	-280	80	10	10	<10	10	<10	87
"	-344	160	10	<10	<10	20	<10	84
"	-213	160	10	10	10	10	20	85
"	-356	640	160	640	80	40	10	70
"	-121	80	20	80	80	10	10	89
"	-183	1280	1280	10	10	40	10	81
"	-059	640	10	<10	10	10	10	78
"	-064	640	640	10	10	80	10	88
"	-147	640	640	160	160	20	10	74
"	-143	160	<10	10	10	10	10	82
"	-292	640	160	20	20	20	20	84
"	-228	1280	320	<10	<10	10	<10	86
"	-321	160	20	20	10	20	10	73
"	-088	80	10	10	10	20	10	
"	-047	160	20	<10	<10	20	10	70
"	-181	40	10	10	10	20	10	78
"	-079	160	10	20	10	20	10	93
"	-117	1280	40	320	40	10	10	86
"	-379	40	10	40	80	10	10	79
"	-225	160	320	20	10	20	10	78
"	-204	160	160	10	10	20	10	90
"	-258	640	320	10	10	10	10	80
"	-368	160	20	160	320	10	10	78
"	-435	160	20	160	20	10	40	75
"	-237	160	<10	20	<10	20	20	42

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
8-7-69	440284	1280	320	<10	<10	20	20	65
"	-187	80	10	40	20	10	40	71
"	-440	80	10	20	10	10	10	74
"	-507	160	80	40	40	20	10	30
"	-293	1280	320	80	40	20	20	51
"	-426	160	160	10	10	10	10	59
"	-404	160	10	640	320	20	20	17
"	-120	80	10	<10	<10	40	20	61
"	-512	640	20	20	10	20	10	69
"	-194	1280	640	640	80	40	20	59
"	-505	160	320	10	10	20	10	61
"	-217	320	20	40	20	10	10	79
"	-221	80	10	40	10	<10	10	76
"	-246	320	10	640	640	10	10	83
"	-127	80	20	<10	<10	20	<10	62
"	-109	40	20	40	1280	10	20	51
"	-374	320	40	10	10	20	10	61
"	-272	160	160	40	10	20	10	87
"	-346	320	160	20	10	20	20	91
"	-285	1280	160	20	20	40	10	46
"	-062	80	10	40	20	10	<10	59
"	-351	640	80	<10	<10	20	10	75
"	-256	160	80	20	20	20	10	86
"	-431	80	10	20	10	10	10	48
"	-102	160	10	<10	<10	10	10	59
"	-116	80	10	640	1280	10	<10	61
"	-069	160	160	160	320	20	20	82
"	-115	640	320	<10	<10	40	<10	83
"	-072	80	20	10	10	20	10	83
"	-450	320	160	10	10	10	10	86
"	-066	80	<10	40	10	10	20	82

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
8-7-69	440427	40	10	160	10	10	40	91
"	—437	320	80	40	10	40	20	83
"	—376	80	10	20	10	10	20	62
"	—080	1280	640	80	40	20	20	79
"	—178	640	320	10	<10	10	20	71
"	—303	160	20	<10	<10	10	<10	73
"	—359	320	320	80	<10	40	20	84
"	—287	80	40	10	<10	10	10	78
"	—377	40	<10	10	10	20	10	88
"	—452	160	10	20	10	40	10	56
"	—349	40	10	10	10	10	20	83
"	—220	160	160	10	10	20	20	75
"	—180	20	10	10	10	10	10	84
"	—186	40	10	40	20	20	20	78
"	—065	1280	1280	80	80	20	10	79
"	—107	160	20	20	20	10	10	71
"	—367	80	10	10	10	20	20	79
"	—074	80	10	10	10	10	10	82
"	—441	80	10	10	10	80	10	85
"	—068	40	10	80	10	20	20	42
"	—030	160	20	160	160	10	20	61
"	—371	1280	1280	1280	320	10	10	66
"	—087	80	20	40	10	20	20	52
"	—184	80	10	10	10	10	20	50
"	—388	10	10	40	<10	20	10	57
"	—423	80	20	20	10	10	10	18
"	—493	80	80	<10	10	20	20	66
"	—036	1280	1280	20	10	10	10	53
8-8-69	550392	40	10	20	10	10	10	76
"	—456	80	10	160	80	20	20	87

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
8-8-69	550390	20	<10	160	20	10	10	86
"	-336	1280	320	<10	10	20	10	87
"	-279	20	10	10	10	10	10	76
"	-460	40	20	10	10	20	10	70
"	-317	40	10	40	40	10	10	86
"	-397	20	10	10	10	10	<10	83
"	-331	320	160	640	640	20	40	86
"	-267	80	20	10	10	10	<10	82
"	-346	40	40	10	<10	20	10	92
"	-277	320	640	10	<10	20	<10	35
"	-268	640	1280	10	10	10	10	93
"	-263	40	10	10	10	10	20	77
"	-371	40	<10	<10	<10	<10	<10	89
"	-441	320	80	40	40	10	10	79
"	-428	1280	160	40	40	10	80	70
"	-429	1280	320	10	<10	20	10	91
"	-410	1280	320	10	10	160	10	80
"	-455	80	10	10	10	10	<10	78
"	-383	160	20	10	20	10	10	
"	-384	640	20	40	10	20	10	91
"	-437	640	640	160	20	10	10	75
"	-396	640	320	10	10	20	20	86
"	-387	1280	160	10	10	10	10	88
"	-273	160	20	320	80	10	10	89
"	-353	160	40	10	10	20	20	82
"	-416	40	20	20	10	10	20	87
"	-270	320	20	1280	320	20	10	86
"	-438	640	160	10	<10	80	20	90
"	-408	640	640	30	10	20	10	85
"	-225	40	20	10	10	20	10	88
"	-066	1280	640	10	10	80	10	75

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
8-8-69	550154	160	10	20	10	80	20	78
"	-224	1280	320	80	10	80	20	71
"	-086	80	10	20	20	20	10	79
"	-028	40	10	40	10	20	20	78
"	-292	160	10	10	10	40	20	75
"	-159	160	10	40	10	40	10	73
"	-235	640	10	20	10	40	10	79
"	-194	1280	1280	160	160	20	10	81
"	-284	640	640	10	10	80	10	70
"	-228	640	160	40	20	20	10	79
"	-196	320	40	10	10	160	40	84
"	-122	160	10	10	10	40	10	75
"	-162	160	320	10	10	20	10	47
"	-226	80	20	40	20	40	10	85
"	-041	40	<10	40	<10	40	20	85
"	-088	40	20	20	<10	10	10	78
"	-176	80	10	160	320	20	80	90
"	-238	160	80	20	10	40	20	64
"	-073	80	160	80	40	80	20	85
"	-030	80	10	10	10	10	10	85
"	-129	80	10	320	160	20	20	88
"	-096	320	160	160	80	160	20	65
"	-038	40	<10	10	<10	80	40	82
"	-133	80	320	10	<10	640	20	78
"	-016	40	<10	80	20	20	40	87
"	-040	80	<10	160	40	10	10	84

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
8-11-69	110269	640	80	160	80	20	10	72
"	-047	320	160	40	10	20	10	74
"	-466	1280	1280	40	10	10	10	89
"	-353	320	160	640	640	10	160	86
"	-043	40	80	80	40	10	20	85
"	-061	640	1280	20	20	10	10	82
"	-463	320	1280	160	160	20	10	84
"	-072	40	320	20	10	10	10	95
"	-445	320	320	40	20	40	40	88
"	-017	320	640	320	10	40	40	91
"	-057	160	20	320	320	20	20	87
"	-013	160	20	80	40	10	10	52
"	-479	640	20	40	80	10	10	85
"	-091	80	40	40	80	10	10	85
"	-285	640	160	320	320	20	20	81
"	-032	40	40	20	20	10	10	33
"	-474	40	80	160	160	20	10	85
"	-427	320	320	40	20	10	10	87
"	-276	1280	1280	20	20	80	40	81
"	-001	160	320	10	10	80	10	73
"	-023	80	80	160	160	10	10	80
"	-051	40	10	160	80	10	40	83
"	-078	1280	1280	40	20	40	10	84
"	-459	640	1280	40	10	40	<10	85
"	-400	1280	320	80	80	20	10	
"	-326	1280	640	40	80	40	20	93
"	-290	640	160	20	40	20	10	87
"	-450	160	40	80	40	20	40	91
"	-355	320	80	20	10	20	10	76
"	-449	1280	640	20	10	40	10	76
"	-280	320	20	20	10	10	10	87

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
8-11-69	110115	160	160	20	<10	10	<10	59
"	-134	160	40	40	10	10	10	66
"	-283	80	20	40	40	10	20	53
"	-185	80	80	20	10	10	10	69
"	-117	20	10	20	20	10	10	80
"	-484	640	10	80	20	20	10	87
"	-141	1280	1280	160	160	20	10	18
"	-481	320	20	20	20	<10	10	73
"	-203	320	10	10	10	10	10	59
"	-186	80	20	80	160	20	40	10
"	-142	80	10	1280	1280	10	80	63
"	-196	320	40	320	320	10	10	67
"	-265	160	20	1280	320	10	10	67
"	-490	160	40	40	40	10	20	48
"	-492	640	640	20	10	40	40	30
"	-092	640	1280	10	<10	20	<10	70
"	-162	80	20	20	10	20	20	69
"	-088	160	160	320	1280	20	10	52
"	-113	40	20	160	80	20	40	49
"	-180	160	160	10	10	10	10	70
"	-093	160	20	40	80	10	40	80
"	-238	160	20	10	20	10	10	69
"	-129	80	10	10	10	20	40	73
"	-109	160	10	80	80	10	80	36
"	-284	320	20	40	80	<10	<10	52
"	-110	80	20	40	20	10	20	77
"	-119	80	10	80	80	<10	10	77
"	-136	160	20	160	320	10	80	59
"	-209	1280	1280	320	640	40	10	55
"	-130	160	20	20	20	10	10	51
"	-237	1280	320	160	640	20	10	6

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
8-11-69	110483	320	80	40	40	40	20	59
"	-166	320	20	320	40	20	20	40

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
8-12-69	220441	1280	1280	80	20	20	20	79
"	-466	20	10	40	20	10	10	32
"	-406	640	640	20	<10	40	10	39
"	-476	640	160	320	320	10	20	63
"	-485	80	80	10	10	20	20	32
"	-489	320	20	80	80	10	20	
"	-431	640	640	20	<10	10	<10	83
"	-482	80	20	10	<10	10	<10	60
"	-554	160	10	40	10	20	20	39
"	-452	320	10	640	160	10	20	42
"	-433	1280	640	160	20	20	10	47
"	-502	80	10	10	<10	10	10	72
"	-473	160	20	40	20	10	10	64
"	-424	640	640	10	<10	20	10	47
"	-445	160	320	640	40	10	20	18
"	-462	80	10	10	10	10	<10	77
"	-495	1280	1280	10	10	40	10	65
"	-559	80	10	10	<10	<10	<10	66
"	-451	640	80	320	160	20	20	55
"	-516	320	20	<10	<10	<10	<10	58
"	-525	160	40	10	<10	10	10	
"	-416	320	40	640	320	10	10	
"	-464	1280	1280	640	160	10	10	74
"	-414	320	20	40	10	10	<10	42
"	-436	640	80	320	320	10	20	20
"	-443	320	80	40	20	20	10	56
"	-453	160	80	320	640	<10	10	60
"	-404	160	20	160	80	<10	<10	57
"	-413	320	20	1280	1280	10	20	57
"	-426	640	20	1280	1280	10	10	56
"	-434	1280	80	80	20	20	20	63

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
8-12-69	220405	320	10	320	160	10	20	54
"	-016	640	10	640	640	10	40	
"	-097	1280	80	640	640	40	20	49
"	-037	80	20	10	<10	20	10	38
"	-039	320	10	1280	1280	10	160	47
"	-056	320	160	20	20	20	10	59
"	-084	320	40	320	80	<10	10	81
"	-194	1280	640	160	80	80	10	68
"	-071	160	40	10	10	10	10	72
"	-242	320	40	1280	1280	10	10	63
"	-124	1280	640	160	40	20	40	77
"	-210	40	10	10	10	10	10	
"	-045	80	10	20	10	<10	10	65
"	-035	320	10	160	160	10	10	81
"	-292	80	10	<10	<10	<10	<10	56
"	-234	160	10	<10	<10	10	20	71
"	-235	640	640	40	<10	20	10	29
"	-049	160	10	80	40	10	40	65
"	-027	320	40	320	160	20	10	55
"	-051	160	10	160	80	20	80	71
"	-038	160	20	10	<10	20	320	58
"	-293	40	10	20	<10	10	20	73
"	-108	80	10	10	<10	10	160	54
"	-011	320	20	10	10	20	10	69
"	-282	40	10	10	<10	<10	10	60
"	-251	80	10	20	10	10	<10	69
"	-072	320	320	10	<10	80	20	48
"	-076	80	10	10	10	10	10	78
"	-042	160	<10	<10	<10	20	20	81
"	-061	640	160	10	<10	20	20	89
"	-052	1280	640	640	80	20	80	92

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
8-12-69	220517	160	20	10	10	20	10	85
"	-531	640	80	10	10	10	10	81
"	-537	160	10	10	10	20	10	59
"	-255	320	20	160	20	20	20	65
"	-544	80	10	20	10	10	10	85
"	-401	320	40	20	10	20	10	89
"	-562	40	10	40	10	10	10	88
"	-275	1280	160	20	10	10	10	69
"	-457	1280	640	80	40	10	10	86
"	-545	160	20	10	10	20	10	90
"	-417	80	20	320	160	10	20	88
"	-429	80	10	40	40	10	10	81
"	-296	80	10	10	10	10	10	84
"	-288	160	10	10	10	10	20	66
"	-259	160	20	640	160	20	80	69
"	-430	80	10	40	40	10	40	86
"	-439	320	40	20	10	10	10	77
"	-265	80	20	40	20	20	40	89
"	-479	1280	320	160	40	40	10	85
"	-520	1280	80	160	80	20	20	75
"	-427	160	10	1280	320	20	40	76
"	-245	160	<10	<10	<10	10	<10	85
"	-408	160	80	160	<10	20	20	81
"	-379	160	20	80	20	20	20	86
"	-396	1280	1280	160	160	40	10	88
"	-357	80	20	1280	1280	10	640	84
"	-337	320	20	160	20	10	10	87
"	-368	1280	1280	320	20	80	10	88
"	-494	80	20	40	20	20	20	68
"	-483	320	40	20	10	20	10	75
"	-395	320	640	40	10	10	10	65

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
8-12-69	220487	80	20	1280	40	10	20	59
"	-370	20	10	20	10	20	20	66
"	-389	1280	640	20	10	20	10	83
"	-325	640	320	10	10	20	10	77
"	-399	640	10	10	<10	40	10	78
"	-365	160	20	160	40	20	20	81
"	-421	1280	1280	40	10	160	10	81
"	-422	640	640	40	20	10	20	82
"	-367	640	10	160	20	10	10	36
"	-400	80	20	10	<10	20	10	88
"	-338	80	20	<10	10	10	<10	65
"	-387	1280	640	320	80	40	10	75
"	-330	320	40	10	10	10	10	75
"	-358	1280	80	10	10	40	10	85
"	-398	160	40	10	10	10	10	
"	-496	80	10	40	20	40	20	67
"	-380	1280	1280	160	80	40	10	87
"	-060	80	10	10	10	20	20	79
"	-059	160	10	10	20	40	20	76
"	-130	160	10	40	40	20	10	74
"	-373	80	10	20	20	40	10	85
"	-226	1280	10	160	40	20	10	73
"	-167	320	10	80	80	20	10	65
"	-393	640	80	40	20	20	20	80
"	-343	40	10	80	40	20	20	57
"	-311	160	10	160	80	20	10	78
"	-306	10	<10	<10	<10	10	<10	78
"	-392	80	10	160	40	10	10	60
"	-057	160	10	320	320	160	20	75
"	-131	320	40	80	80	40	20	78
"	-229	320	20	10	10	20	10	77

Specimen Date	Specimen #	HAI Titers Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	CF Titers Flu A	Flu B	Trypsin Inhibitory Capacity
8-12-69	220484	40	10	10	10	10	10	77
"	-179	1280	80	80	20	20	20	75
"	-225	160	10	20	10	20	10	89
"	-236	80	10	40	20	20	20	
"	-382	640	80	80	40	10	10	75
"	-307	1280	640	10	10	160	10	83
"	-383	160	10	10	<10	160	10	85
"	-353	80	20	80	40	10	20	85
"	-184	1280	1280	20	10	640	10	86
"	-314	160	20	640	80	20	10	60
"	-143	640	<10	320	80	10	10	62
"	-101	80	10	640	160	20	20	85
8-13-69	330291	40	20	40	40	10	10	64
"	-452	160	160	10	10	20	<10	30
"	-340	40	10	40	40	10	10	48
"	-407	160	640	20	10	20	<10	52
"	-476	80	20	40	20	10	10	76
"	-297	80	20	10	10	10	<10	93
"	-059	40	20	40	20	10	10	55
"	-280	160	20	40	40	10	40	11
"	-348	1280	640	40	20	20	10	
"	-477	320	640	20	10	10	10	56
"	-435	20	20	10	10	10	10	70
"	-100	80	10	20	10	10	<10	58
"	-485	80	20	20	<10	10	10	
"	-466	160	20	40	40	20	10	78
"	-219	1280	640	160	40	20	10	72
"	-084	80	10	20	20	10	10	74
"	-123	40	10	80	20	10	<10	
"	-298	160	20	640	160	20	10	91

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
8-13-69	330234	40	10	80	20	10	10	38
"	-243	640	320	10	20	20	10	57
"	-447	40	10	640	640	20	80	75
"	-450	640	160	40	40	10	<10	74
"	-024	10	<10	20	20	10	<10	58
"	-252	40	<10	40	40	20	10	55
"	-134	320	20	40	160	20	20	59
"	-382	80	20	20	20	10	10	42
"	-342	80	20	80	20	10	10	88
"	-016	160	160	40	40	20	10	11
"	-303	40	20	20	20	10	10	47
"	-400	80	10	40	20	<10	10	24
"	-253	320	160	40	20	10	10	74
"	-255	80	80	80	20	10	10	71
"	-264	320	160	40	20	20	10	11
"	-434	160	10	320	40	10	20	66
"	-344	320	80	640	80	20	20	80
"	-305	320	10	10	10	10	<10	38
"	-424	40	20	20	20	10	20	90
"	-239	640	160	40	80	10	10	75
"	-489	1280	320	160	160	10	20	77
"	-380	640	640	160	40	10	10	
"	-461	320	640	20	10	20	10	72
"	-343	160	20	40	80	10	10	76
"	-248	80	20	320	160	10	20	80
"	-070	320	160	40	10	40	20	50
"	-349	40	20	160	40	10	20	47
"	-491	320	160	1280	640	20	20	19
"	-078	40	20	20	20	20	20	49

Specimen Date	Specimen #	HAI Titers Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	CF Titers Flu A	Flu B	Trypsin Inhibitory Capacity
8-14-69	450251	40	<10	20	20	10	20	41
"	-233	320	20	10	10	20	10	87
"	-217	80	20	1280	1280	20	40	59
"	-293	1280	640	20	<10	40	20	75
"	-249	80	160	160	40	20	10	75
"	-314	640	640	40	10	20	10	76
"	-226	160	10	40	40	20	10	86
"	-259	40	10	40	10	10	10	64
"	-288	160	20	80	40	10	20	80
"	-363	160	20	20	20	10	10	87
"	-261	640	320	160	40	20	20	88
"	-239	20	10	20	10	10	10	89
"	-250	20	10	20	20	10	20	83
"	-225	40	20	160	80	10	10	87
"	-218	20	10	80	10	10	40	93
"	-229	20	10	10	10	20	10	68
"	-211	640	160	40	20	20	10	57
"	-215	320	40	40	20	10	10	94
"	-317	160	20	80	20	10	10	79
"	-253	160	160	80	40	10	10	71
"	-248	640	40	10	10	40	20	87
"	-373	40	10	40	10	20	20	81
"	-252	320	20	80	20	20	20	80
"	-377	320	20	80	160	10	10	92
"	-346	80	40	40	10	20	20	52
"	-315	80	10	80	20	<10	10	84
"	-374	80	20	160	10	40	20	80
"	-367	320	40	40	20	10	10	76
"	-393	640	320	160	40	40	10	81
"	-343	160	10	40	20	20	10	87
"	-040	160	20	40	20	10	20	75

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
8-14-69	450081	40	10	20	10	10	10	85
"	-077	160	10	40	10	10	<10	73
"	-048	40	10	10	10	10	<10	86
"	-089	1280	640	20	40	20	40	82
"	-076	160	10	160	80	10	20	86
"	-071	320	20	20	20	20	40	84
"	-074	1280	10	160	160	20	20	58
"	-029	160	80	80	40	20	10	84
"	-517	1280	640	320	80	40	10	79
"	-447	160	20	40	20	10	10	75
"	-010	80	20	80	10	10	10	20
"	-009	40	20	10	<10	20	10	79
"	-039	80	10	10	10	10	<10	75
"	-436	320	80	160	80	10	10	
"	-451	40	40	40	40	10	10	
"	-519	160	20	40	40	10	10	
"	-479	80	10	20	20	80	20	
"	-437	80	10	10	20	10	10	
"	-431	160	10	1280	640	10	20	
"	-413	640	20	20	20	10	10	
"	-439	160	20	40	20	10	10	
"	-165	160	20	160	20	10	20	
"	-223	640	80	160	320	20	10	
"	-102	320	320	160	40	20	10	
"	-244	80	40	320	160	80	20	
"	-119	160	40	10	20	10	10	
"	-122	1280	80	320	160	10	10	
"	-180	320	80	40	20	<10	10	
"	-143	320	160	<10	10	40	10	
"	-224	640	1280	40	40	10	10	
"	-120	1280	160	320	40	10	10	

Specimen Date	Specimen #	HAI Titers Flu A-2 Japan	HAI Titers Flu A-2 Hong Kong	HAI Titers Flu B Md.	HAI Titers Flu B Mass.	CF Titers Flu A	CF Titers Flu B	Trypsin Inhibitory Capacity
8-14-69	450111	160	320	40	20	40	10	
"	-228	1280	320	40	20	80	20	
"	-164	320	160	40	20	10	10	
"	-121	1280	1280	20	10	80	10	
"	-118	320	40	10	10	<10	10	
"	-109	40	20	40	40	<10	<10	
8-15-69	5000147	40	10	20	10	10	10	86
"	-121	320	160	20	10	10	20	61
"	-319	40	10	40	40	10	20	53
"	-123	80	20	10	10	10	20	49
"	-475	320	20	160	40	20	40	46
"	-176	1280	1280	160	320	20	20	72
"	-483	1280	640	10	10	20	10	86
"	-049	320	80	10	10	10	20	72
"	-122	80	40	10	10	10	10	
"	-126	80	160	<10	40	10	10	36
"	-080	160	40	10	10	10	10	51
"	-132	80	20	10	10	10	20	69
"	-085	640	10	20	10	<10	20	91
"	-225	80	10	40	40	<10	10	36
"	-128	80	160	40	80	20	20	59
"	-130	80	20	40	40	10	10	65
"	-120	80	20	160	80	<10	40	70
"	-479	1280	1280	80	40	20	10	72
"	-127	320	20	80	20	10	10	75
"	-189	1280	1280	640	640	10	20	73
"	-090	80	20	20	20	10	10	70
"	-078	160	40	20	20	10	20	67
"	-258	320	40	320	40	<10	20	82
"	-157	320	20	20	20	10	10	

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
8-15-69	5000102	320	10	40	10	10	20	74
"	—119	320	40	40	20	10	10	76
"	—039	320	320	20	20	<10	10	65
"	—384	160	80	320	40	20	40	57
"	—165	1280	40	320	160	10	10	92
"	—373	160	10	640	20	20	40	81
"	—048	40	10	20	10	10	20	84
"	—041	80	10	20	20	10	20	73
"	—186	160	20	20	10	10	10	74
"	—104	320	160	20	10	40	10	65
"	—112	640	80	1280	640	40	40	79
"	—097	640	80	10	10	20	20	87
"	—045	640	160	640	80	10	20	71
"	—171	40	20	640	320	20	10	89
"	—069	20	10	80	40	10	20	49
"	—248	160	160	640	320	10	10	80
"	—210	80	10	40	40	20	10	
"	—474	160	10	10	10	20	10	76
"	—099	80	40	<10	<10	40	40	87
"	—154	160	10	20	10	10	10	83
"	—456	160	320	20	10	20	20	83
"	—473	80	20	20	10	10	10	77
"	—379	320	80	20	10	<10	<10	81
"	—103	80	20	80	20	10	10	69
"	—118	80	20	40	20	20	20	82
"	—135	80	10	160	80	20	20	84
"	—092	40	10	40	20	10	<10	86
"	—029	40	10	20	20	20	10	
"	—338	80	20	40	80	10	10	

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
8-18-69	10040	320	160	10	<10	20	10	80
"	-048	80	<10	<10	<10	10	<10	70
"	-152	160	<10	40	20	10	20	71
"	-133	80	80	20	<10	10	<10	60
"	-057	80	80	10	10	20	40	65
"	-049	80	<10	<10	<10	20	<10	78
"	-256	1280	1280	10	10	20	10	60
"	-067	40	<10	640	160	10	10	71
"	-298	160	320	160	10	10	20	81
"	-334	80	160	<10	<10	20	10	64
"	-407	80	<10	<10	<10	10	10	67
"	-127	40	<10	<10	<10	10	<10	41
"	-125	160	<10	10	<10	10	10	84
"	-111	160	<10	1280	<10	20	20	63
"	-078	160	20	20	10	10	<10	66
"	-136	320	20	<10	<10	<10	<10	
"	-115	1280	640	<10	<10	20	10	85
"	-088	1280	40	20	10	10	20	
"	-059	640	160	20	10	10	10	73
"	-506	1280	640	640	160	10	20	80
"	-083	80	10	40	10	10	20	
"	-041	320	<10	10	10	10	<10	81
"	-132	80	20	20	10	10	10	73
"	-034	80	<10	160	10	10	10	78
"	-025	320	20	160	40	10	10	70
"	-335	160	10	10	10	10	10	91
"	-019	1280	1280	10	10	20	20	22
"	-050	640	320	20	20	10	<10	89
"	-276	640	80	20	10	20	20	77
"	-009	160	10	20	10	10	20	60
"	-493	160	320	160	20	10	10	64

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
8-18-69	10156	160	160	160	10	20	10	66
"	-143	640	640	20	10	20	20	35
"	-476	160	640	20	20	<10	10	62
"	-068	80	20	10	10	10	10	62
"	-038	160	20	20	10	10	10	80
"	-150	160	<10	10	<10	10	10	79
"	-164	320	10	40	80	10	40	77
"	-531	40	10	<10	<10	10	10	59
"	-420	1280	160	160	160	20	10	59
"	-329	80	<10	640	<10	10	<10	59
"	-146	160	160	10	10	20	20	69
"	-058	160	<10	20	<10	10	40	30
"	-169	160	<10	640	160	<10	10	83
"	-437	80	<10	<10	<10	10	10	73
"	-504	40	<10	20	10	10	10	73
"	-447	40	10	10	10	10	10	70
"	-029	640	10	320	20	10	80	65
"	-010	<10	10	<10	10	<10	<10	81
"	-042	20	10	10	10	10	10	75
"	-008	40	<10	640	40	<10	20	62
"	-007	160	40	40	10	10	20	71
"	-163	80	20	20	20	10	40	38
"	-071	640	10	10	10	20	<10	51

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
8-19-69	20030	80	<10	10	10	<10	<10	81
"	-466	160	<10	40	20	10	10	50
"	-514	1280	320	320	40	20	10	21
"	-097	160	10	20	<10	20	10	82
"	-551	40	<10	1280	320	10	40	84
"	-047	1280	10	640	40	20	10	63
"	-077	1280	<10	160	20	10	20	23
"	-522	40	<10	10	10	<10	<10	43
"	-084	640	<10	160	20	10	10	72
"	-251	320	<10	320	40	10	10	85
"	-027	160	<10	1280	640	10	80	78
"	-194	160	<10	80	40	—	—	44
"	-281	160	<10	10	10	10	<10	8
"	-412	640	640	40	20	20	10	94
"	-060	640	20	640	40	20	10	71
"	-400	1280	20	160	40	20	10	78
"	-273	640	640	320	80	20	10	82
"	-069	320	<10	<10	<10	<10	10	46
"	-091	320	10	160	20	20	10	64
"	-553	160	<10	<10	10	10	10	85
"	-013	320	160	10	10	10	10	68
"	-023	1280	320	320	640	20	40	71
"	-092	80	<10	40	20	20	10	66
"	-518	320	40	640	640	20	40	69
"	-003	160	160	40	20	10	<10	86
"	-176	1280	640	320	320	20	10	56
"	-399	320	640	10	20	10	<10	68
"	-271	160	640	160	40	10	10	85
"	-144	320	<10	320	20	—	—	
"	-038	160	320	20	20	10	10	74
"	-053	80	320	40	80	20	20	86

Specimen Date	Specimen #	HAI Titers Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	CF Titers Flu A	Flu B	Trypsin Inhibitory Capacity
8-19-69	20162	640	1280	80	20	10	10	86
"	-154	160	10	40	20	10	10	55
"	-101	160	320	40	20	20	10	28
"	-050	1280	640	80	80	10	10	79
"	-193	160	40	40	10	<10	<10	68
"	-396	320	640	80	80	20	10	
"	-113	320	40	640	320	10	40	
"	-057	640	10	160	80	10	10	
"	-123	1280	1280	40	40	20	10	
"	-158	40	10	10	10	10	<10	
"	-052	320	10	10	10	10	10	
"	-391	640	10	40	20	<10	10	
"	-128	160	10	10	10	10	10	
"	-130	160	10	20	10	10	10	
"	-167	640	20	320	160	10	10	
"	-533	1280	1280	40	40	10	<10	
"	-126	1280	20	1280	1280	40	20	
"	-199	80	10	80	40	10	10	75
"	-093	640	320	<10	<10	20	10	39
"	-005	320	320	20	10	20	10	73
"	-134	320	640	20	10	10	10	43
"	-028	160	10	40	40	10	10	63
"	-172	40	<10	40	20	<10	10	
"	-153	640	80	160	80	10	10	53
"	-110	80	10	320	80	10	10	53
"	-015	160	40	160	160	20	10	78
"	-119	80	10	80	80	20	10	
"	-503	160	10	320	640	20	10	
"	-173	1280	640	40	80	20	10	66
"	-006	80	20	40	40	<10	<10	
"	-157	320	10	160	80	20	10	

Specimen Date	Specimen #	HAI Titers Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	CF Titers Flu A	Flu B	Trypsin Inhibitory Capacity
8-19-69	20009	160	10	160	80	20	10	
"	-007	320	10	20	20	20	10	
"	-098	320	20	40	40	10	10	
"	-342	640	10	640	160	20	10	
"	-378	160	<10	640	320	10	20	
"	-286	160	10	1280	640	20	80	
"	-239	160	10	160	20	20	20	
"	-108	1280	320	10	20	80	<10	
"	-164	320	10	160	160	20	10	
"	-129	320	10	160	40	40	40	
"	-147	160	10	160	160	10	40	
"	-262	1280	1280	160	160	40	20	
"	-169	160	160	320	40	40	80	
"	-127	160	<10	10	10	10	10	
"	-133	40	10	20	20	20	10	
"	-267	40	10	1280	>1280	10	20	
"	-121	320	320	20	20	10	<10	
"	-186	160	10	640	640	10	10	
"	-151	320	10	40	40	10	10	
"	-292	40	20	10	20	20	10	
"	-261	1280	640	40	20	10	<10	
"	-168	160	10	40	20	10	10	
"	-266	80	10	80	40	10	10	
"	-317	1280	1280	640	160	40	10	
"	-132	320	40	320	80	20	10	31
"	-447	640	10	1280	320	10	40	
"	-428	160	10	1280	1280	20	40	55
"	-213	320	10	80	80	10	10	69
"	-462	640	10	160	160	10	10	40
"	-485	640	10	1280	160	10	10	57
"	-488	640	80	40	40	10	10	46

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
8-19-69	20145	1280	1280	80	40	10	10	47
"	-474	160	10	80	40	10	10	50
"	-468	320	640	320	160	10	10	63
"	-438	1280	640	1280	320	40	40	
"	-258	160	10	320	80	10	10	
"	-395	320	20	80	40	40	10	
"	-420	80	10	320	80	10	10	50
"	-398	160	20	40	10	10	<10	18
"	-440	640	20	640	160	10	10	23
"	-291	10	<10	320	20	20	10	56
"	-405	1280	40	40	20	10	10	71
"	-332	320	10	40	10	20	10	72
"	-381	160	10	320	40	20	20	
"	-143	640	80	640	40	10	10	28
"	-339	160	20	320	160	10	10	53
"	-295	320	20	160	160	20	40	
"	-310	160	10	640	640	10	10	
8-20-69	330184	320	640	1280	80	20	10	77
"	-125	320	640	160	20	20	10	43
"	-309	80	160	160	80	10	20	
"	-190	40	160	640	160	10	20	52
"	-112	80	80	1280	320	10	20	55
"	-135	80	80	320	160	<10	<10	37
"	-142	80	80	80	40	10	10	76
"	-146	160	160	80	80	20	10	40
"	-189	40	80	160	160	20	40	
"	-122	80	80	80	160	10	10	58
"	-192	40	80	80	160	20	10	
"	-167	80	80	160	80	10	10	54
"	-115	160	640	640	160	10	10	48

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
8-20-69	330172	40	160	640	160	<10	10	49
"	—164	80	40	320	80	<10	10	60
"	—129	320	1280	320	160	20	10	21
"	—133	80	320	640	80	10	10	63
"	—175	40	80	640	160	20	10	52
"	—154	160	320	320	80	20	20	33
"	—119	80	320	320	80	10	10	69
"	—176	320	640	320	160	10	10	57
"	—198	320	320	320	320	20	10	46
"	—293	40	320	320	320	10	10	51
"	—355	320	160	320	160	10	10	64
"	—104	80	80	320	40	<10	10	51
"	—195	40	80	320	80	10	10	51
"	—197	1280	640	640	80	40	10	51
"	—111	80	80	640	80	10	10	69
"	—163	80	80	160	40	<10	10	30
"	—120	640	80	640	80	10	<10	27
"	—300	160	80	640	320	20	20	58
"	—386	320	80	160	80	10	10	83
"	—348	80	80	160	80	<10	10	76
"	—234	160	20	320	80	10	<10	16
"	—332	160	40	640	160	10	10	57
"	—247	80	40	320	80	10	10	3
"	—380	80	80	160	160	10	10	
"	—105	160	320	640	320	10	20	
"	—337	640	640	320	160	10	10	83
"	—096	320	160	160	40	20	10	48
"	—302	160	160	320	160	20	10	54
"	—185	320	320	160	40	40	10	13
"	—272	80	40	160	40	10	10	48
"	—265	320	40	320	80	20	20	72

A

Specimen Date	Specimen #	HAI Titers Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	CF Titers Flu A	Flu B	Trypsin Inhibitory Capacity
8-20-69	330281	160	40	160	160	20	20	25
"	-297	80	80	160	80	<10	10	70
"	-330	40	40	80	80	10	10	
"	-329	80	80	640	160	--	-	61
"	-208	640	160	160	160	20	20	54
"	-382	640	160	320	160	10	20	
"	-371	80	80	320	160	20	20	54
"	-306	320	320	640	320	20	10	37
"	-315	80	160	80	40	80	20	
"	-221	80	80	160	40	40	10	90
"	-362	1280	640	160	80	20	20	
"	-232	80	40	1280	640	20	20	
"	-134	40	20	40	40	10	10	65
"	-394	320	320	80	20	20	<10	
"	-339	640	1280	1280	640	20	10	
"	-468	160	160	160	320	<10	20	
"	-031	40	20	160	80	40	20	
"	-275	80	160	160	40	40	20	
"	-087	640	320	640	80	10	10	73
"	-414	640	640	320	160	40	20	80
"	-423	80	10	80	80	20	10	
"	-439	20	10	320	160	10	10	
"	-366	20	20	80	80	<10	<10	1
"	-043	40	20	80	80	10	10	
"	-413	20	40	40	40	10	10	61
"	-094	80	80	40	10	10	<10	
"	-322	640	1280	160	160	20	10	
"	-410	80	1280	160	80	10	20	
"	-034	640	640	640	80	40	20	92
"	-085	80	80	320	10	20	20	
"	-080	160	80	160	160	10	<10	64

Specimen Date	Specimen #	HAI Titers Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	CF Titers Flu A	Flu B	Trypsin Inhibitory Capacity
8-20-69	330024	80	80	80	40	10	10	92
"	-070	40	40	40	20	20	10	77
"	-452	160	80	160	80	10	10	58
"	-411	40	20	160	80	<10	10	86
"	-055	160	80	160	80	10	10	86
"	-216	320	160	320	160	80	10	69
"	-053	320	160	80	40	20	10	34
"	-081	80	40	80	40	10	10	72
"	-252	80	80	160	40	10	10	42
"	-042	1280	1280	160	40	10	10	79
"	-428	640	160	320	80	10	40	
"	-022	320	160	160	40	20	20	77
"	-047	40	160	80	40	20	10	79
"	-415	1280	1280	160	80	20	10	85
"	-328	40	80	40	80	20	20	73
"	-461	80	80	80	80	10	40	34
"	-210	40	80	320	160	10	20	42
8-21-69	440238	320	20	40	<10	10	<10	59
"	-071	640	40	20	<10	10	10	63
"	-026	320	20	640	80	<10	20	27
"	-179	640	80	320	40	10	20	69
"	-458	640	1280	10	<10	20	10	72
"	-143	1280	1280	10	<10	10	10	75
"	-037	320	160	<10	<10	10	<10	52
"	-069	160	40	<10	<10	10	<10	84
"	-315	80	<10	640	40	20	40	7.
"	-074	80	<10	<10	<10	<10	10	34
"	-338	320	20	1280	320	10	20	77
"	-094	1280	1280	20	<10	10	10	67
"	-109	320	80	40	20	10	10	57

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
8-21-69	440192	640	160	10	<10	20	10	55
"	-110	320	160	40	10	10	10	73
"	-084	320	40	320	20	10	20	69
"	-437	320	640	160	320	20	10	32
"	-054	160	320	320	320	10	20	51
"	-219	80	10	320	640	10	80	75
"	-077	640	640	640	20	10	20	67
"	-058	640	160	10	<10	10	10	67
"	-038	320	320	320	80	10	10	65
"	-479	80	<10	20	<10	10	10	61
"	-260	320	160	<10	<10	10	<10	
"	-231	640	320	40	10	10	10	59
"	-115	320	10	10	10	<10	<10	55
"	-319	320	160	640	320	10	20	61
"	-147	640	1280	<10	<10	<10	10	76
"	-125	80	10	20	10	10	<10	67
"	-007	160	10	10	10	10	10	32
"	-376	320	<10	<10	<10	10	20	62
"	-078	320	<10	80	10	10	10	28
"	-140	640	320	20	10	10	10	74
"	-210	80	20	10	<10	20	10	65
"	-025	640	160	80	10	20	20	56
"	-042	320	40	10	<10	20	10	38
"	-188	160	320	80	10	10	20	37
"	-225	320	40	10	<10	10	10	61
"	-041	1280	1280	20	10	20	20	29
"	-291	320	20	40	20	10	10	76
"	-055	40	10	20	20	10	20	64
"	-137	640	80	<10	10	10	10	69
"	-328	80	<10	<10	<10	10	20	61
"	-106	80	40	20	10	10	10	59

Specimen Date	Specimen #	HAI Titers Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	CF Titers Flu A	Flu B	Trypsin Inhibitory Capacity
8-21-69	440369	640	640	40	40	10	10	
"	-032	160	10	10	10	10	20	69
"	-465	80	10	10	<10	40	10	48
"	-006	1280	1280	1280	1280	<10	10	62
"	-176	160	20	20	10	10	10	59
"	-454	320	80	160	320	40	20	
"	-040	320	40	80	320	10	20	59
"	-202	80	20	40	10	10	10	77
"	-003	40	20	10	10	10	10	82
"	-044	1280	80	10	10	20	10	68
"	-470	160	10	40	20	10	20	23
"	-008	640	320	20	10	10	10	73
"	-122	1280	640	160	40	40	20	60
"	-031	320	<10	20	<10	40	20	59
"	-039	640	40	10	10	10	10	43
"	-441	1280	320	160	80	20	10	51
"	-372	320	160	20	10	10	10	85
"	-142	1280	1280	160	40	20	10	61
"	-065	160	10	10	10	<10	10	82
"	-480	1280	20	160	160	20	20	
"	-075	1280	640	40	10	10	10	52
"	-114	320	20	<10	<10	<10	<10	75
"	-342	640	640	20	20	20	10	76
"	-167	80	40	20	20	<10	10	49
"	-347	160	80	<10	<10	10	10	73
"	-191	640	80	160	80	40	10	35
"	-117	1280	1280	640	160	20	10	75
"	-124	40	<10	640	320	10	20	51
"	-135	80	20	20	<10	10	10	85
"	-262	1280	320	320	10	80	10	73
"	-302	40	10	10	10	10	10	62

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
8-21-69	440421	640	640	<10	<10	20	10	65
"	-072	640	80	320	320	20	10	72
"	-095	160	10	<10	<10	10	10	79
"	-401	640	40	20	20	20	10	75
"	-089	80	20	20	10	10	10	73
"	-220	640	320	40	20	10	10	73
"	-269	40	10	160	320	10	40	47
"	-131	320	10	320	80	10	10	68
"	-035	40	10	10	10	10	10	68
"	-088	320	20	640	80	10	20	29
"	-180	640	320	40	10	40	10	78
"	-093	320	20	40	20	20	20	61
8-22-69	550779	1280	640	80	40	10	10	84
"	-397	80	<10	<10	10	10	10	75
"	-164	160	10	320	80	10	20	83
"	-309	80	10	10	20	10	10	61
"	-142	40	10	40	20	10	20	61
"	-113	640	10	160	160	10	10	54
"	-140	80	40	20	20	20	10	54
"	-040	320	10	40	40	<10	10	63
"	-098	40	10	10	20	10	10	63
"	-153	160	80	40	20	10	20	76
"	-032	40	10	80	20	10	10	45
"	-269	160	10	1280	640	10	20	26
"	-054	40	10	<10	40	10	10	26
"	-277	80	20	80	160	40	20	76
"	-127	160	20	160	160	20	20	80
"	-233	80	80	20	20	20	10	25

Specimen Date	Specimen #	HAI Titers Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	CF Titers Flu A	Flu B	Trypsin Inhibitory Capacity
8-25-69	110028	1280	640	160	80	20	20	52
"	-458	40	10	40	20	10	20	
"	-075	160	20	80	40	10	10	44
"	-067	320	20	320	160	10	10	53
"	-380	640	20	80	40	10	10	51
"	-360	320	20	40	20	20	20	57
"	-055	320	10	160	80	20	20	85
"	-240	1280	640	160	160	10	10	43
"	-062	640	20	640	320	10	20	75
"	-065	320	80	40	20	10	10	71
"	-256	1280	160	640	320	20	10	68
"	-227	640	160	80	40	10	10	37
"	-192	640	10	10	10	10	<10	66
"	-247	640	80	20	10	10	<10	75
"	-207	640	40	320	160	20	10	52
"	-041	160	20	160	40	20	10	63
"	-037	320	40	80	40	10	10	58
"	-228	640	40	1280	80	10	40	64
"	-014	1280	640	80	40	10	10	47
"	-278	160	20	80	40	10	10	15
"	-177	320	40	40	40	10	<10	62
"	-250	1280	640	320	160	10	10	66
"	-039	320	80	640	160	20	20	73
"	-144	320	80	160	20	10	10	52
"	-470	320	40	80	40	20	10	36
"	-057	160	20	160	160	20	10	62
"	-128	1280	1280	1280	640	20	10	86
"	-201	80	20	10	20	10	10	25
"	-084	160	10	80	40	10	<10	27
"	-137	160	10	1280	80	10	40	73
"	-181	160	320	160	80	40	20	39

Specimen Date	Specimen #	HAI Titers Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	CF Titers Flu A	Flu B	Trypsin Inhibitory Capacity
8-25-69	110280	80	10	160	80	10	10	
"	—045	40	10	160	160	10	20	44
"	—026	160	80	160	160	20	20	54
"	—363	80	20	80	80	10	10	43
"	—171	80	10	20	10	20	10	57
"	—174	160	20	320	80	10	10	36
"	—362	80	10	40	40	10	10	52
"	—176	40	10	40	40	10	10	74
"	—474	80	10	320	80	10	20	58
"	—032	320	10	320	160	10	10	63
"	—255	80	10	80	160	40	10	
"	—076	640	160	160	40	20	10	58
"	—073	640	40	640	80	40	20	61
"	—042	80	20	80	80	10	10	54
"	—462	1280	1280	40	20	10	10	8
"	—405	80	10	40	20	10	20	91
"	—464	40	10	80	40	10	10	56
"	—135	80	80	320	160	10	10	74
"	—089	320	80	20	20	160	20	33
"	—012	640	320	160	80	40	10	64
"	—193	80	10	320	160	10	10	55
"	—440	640	640	640	320	80	20	
"	—138	1280	640	40	20	80	10	66
"	—267	320	20	1280	640	20	20	53
"	—061	320	10	80	80	10	10	40
"	—069	80	10	80	80	<10	10	8
"	—078	640	320	10	20	40	10	9
"	—110	160	<10	40	20	10	20	46
"	—096	640	80	40	20	10	10	57
"	—361	40	10	20	40	10	10	64

Specimen Date	Specimen #	HAI Titers Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	CF Titers Flu A	Flu B	Trypsin Inhibitory Capacity
8-26-69	220325	1280	160	320	40	10	20	
"	—313	80	<10	40	20	10	10	
"	—222	640	10	40	20	<10	<10	
"	—103	640	640	160	80	20	10	
"	—246	40	10	320	160	20	20	
"	—176	80	20	40	40	10	10	
"	—295	160	10	80	40	10	10	
"	—307	1280	640	80	80	10	10	
"	—073	80	20	160	160	20	10	
"	—231	10	10	20	20	20	10	
"	—113	160	20	80	40	20	10	
"	—217	80	20	10	20	10	<10	
"	—041	80	10	20	20	10	<10	
"	—166	40	10	20	20	10	<10	
"	—148	320	20	160	80	20	10	
"	—320	40	10	20	20	10	<10	
"	—163	80	20	20	40	10	10	
"	—146	1280	1280	320	80	40	10	
"	—082	1280	1280	80	20	20	10	
"	—220	160	10	40	20	20	10	
"	—044	640	20	1280	1280	20	80	
"	—161	160	40	20	20	10	<10	
"	—106	80	10	10	20	10	<10	
"	—155	1280	1280	40	40	10	10	
"	—208	320	640	20	20	<10	10	69
"	—100	160	40	160	80	20	10	79
"	—188	640	20	1280	640	10	10	69
"	—150	320	80	640	320	10	20	92
"	—037	160	<10	80	20	40	40	30
"	—033	320	160	10	10	20	20	92
"	—156	640	1280	80	40	20	10	75

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
8-26-69	220287	320	20	80	80	10	20	65
"	—077	80	<10	40	40	10	10	41
"	—020	1280	1280	40	160	20	10	79
"	—197	1280	80	160	320	10	10	78
"	—324	1280	320	640	640	40	20	66
"	—104	1280	1280	640	640	10	10	55
"	—046	640	160	160	80	10	10	65
"	—078	80	10	20	40	10	<10	92
"	—096	1280	10	320	640	10	10	84
"	—090	640	40	160	320	10	20	81
"	—152	160	10	160	320	10	20	69
"	—151	1280	10	160	160	10	10	63
"	—101	320	10	20	20	10	10	
8-27-69	330084	80	<10	<10	10	10	10	91
"	—141	320	640	80	80	10	20	
"	—126	80	10	40	10	10	10	82
"	—143	160	<10	80	20	10	20	69
"	—421	40	<10	10	10	10	10	83
"	—044	160	10	10	10	20	10	
"	—052	80	10	80	40	10	10	74
"	—023	160	20	10	10	10	10	81
"	—245	1280	1280	320	80	10	10	82
"	—299	160	20	20	10	10	10	87
"	—007	160	80	10	10	20	20	77
"	—034	320	10	80	10	10	20	63
"	—279	80	<10	10	10	10	10	57
"	—006	40	10	640	320	10	80	90
"	—069	320	320	10	10	10	10	
"	—134	640	320	20	10	20	10	44
"	—029	160	160	40	10	10	10	76

Specimen Date	Specimen #	HAI Titers Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	CF Titers Flu A	Flu B	Trypsin Inhibitory Capacity
8-27-69	330083	160	20	10	10	10	10	88
"	—127	160	40	1280	1280	40	40	76
"	—436	80	10	40	20	<10	10	80
"	—073	1280	80	160	20	20	10	66
"	—281	80	10	40	20	10	20	65
"	—071	80	10	160	40	10	10	84
"	—054	320	20	20	10	10	10	86
"	—028	320	10	1280	320	10	10	
"	—086	320	20	40	40	10	10	80
"	—081	160	40	40	10	10	10	92
"	—147	160	20	10	10	20	10	76
"	—130	80	10	10	10	20	10	87
"	—080	320	80	40	10	10	10	73
"	—087	320	320	640	640	10	80	
"	—057	160	10	<10	10	10	10	67
"	—024	640	10	40	20	10	20	61
"	—493	640	160	20	10	20	40	59
"	—047	80	20	10	10	10	10	51
"	—076	320	10	40	20	20	20	69
"	—331	160	10	10	<10	10	10	59
"	—459	160	320	160	10	20	10	38
"	—036	40	10	20	20	10	20	35
"	—040	40	<10	10	<10	10	10	61
"	—074	1280	640	<10	10	10	40	80
"	—327	320	160	320	160	80	20	62
"	—168	80	10	20	10	10	20	76
"	—097	80	10	20	10	10	10	71
"	—207	640	20	320	40	10	10	43
"	—471	160	10	40	20	<10	<10	81
"	—315	1280	160	40	10	20	10	75
"	—180	80	10	40	80	10	20	56

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
8-27-69	330083	160	20	10	10	10	10	88
"	-127	160	40	1280	1280	40	40	76
"	-436	80	10	40	20	<10	10	80
"	-073	1280	80	160	20	20	10	66
"	-281	80	10	40	20	10	20	65
"	-071	80	10	160	40	10	10	84
"	-054	320	20	20	10	10	10	86
"	-028	320	10	1280	320	10	10	
"	-086	320	20	40	40	10	10	80
"	-081	160	40	40	10	10	10	92
"	-147	160	20	10	10	20	10	76
"	-130	80	10	10	10	20	10	87
"	-080	320	80	40	10	10	10	73
"	-087	320	320	640	640	10	80	
"	-057	160	10	<10	10	10	10	67
"	-024	640	10	40	20	10	20	61
"	-493	640	160	20	10	20	40	59
"	-047	80	20	10	10	10	10	51
"	-076	320	10	40	20	20	20	69
"	-331	160	10	10	<10	10	10	59
"	-459	160	320	160	10	20	10	38
"	-036	40	10	20	20	10	20	35
"	-040	40	<10	10	<10	10	10	61
"	-074	1280	640	<10	10	10	40	80
"	-327	320	160	320	160	80	20	62
"	-168	80	10	20	10	10	20	76
"	-097	80	10	20	10	10	10	71
"	-207	640	20	320	40	10	10	43
"	-471	160	10	40	20	<10	<10	21
"	-315	1280	160	40	10	20	10	75
"	-180	80	10	40	80	10	20	56

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
8-27-69	330102	80	40	10	10	10	10	58
"	—095	160	10	10	10	10	10	
"	—066	320	40	10	10	10	10	
"	—273	160	20	80	80	10	10	71
"	—049	160	10	20	10	10	10	64
"	—123	640	160	10	10	10	20	55
"	—167	640	40	160	20	20	10	89
"	—062	80	10	80	10	<10	20	29
"	—362	1280	640	10	10	10	20	74
"	—041	20	10	10	10	10	10	84
"	—088	320	80	20	10	20	10	70
"	—456	80	10	160	20	10	20	62
"	—228	160	20	20	10	10	10	72
"	—319	1280	640	80	160	10	20	62
"	—495	160	10	10	10	10	10	31
"	—358	80	10	40	20	10	20	
"	—031	1280	640	<10	10	10	10	65
"	—075	80	10	10	10	10	10	64
"	—324	160	10	320	80	20	40	57
"	—169	320	20	160	40	10	10	70
"	—360	640	1280	1280	160	10	20	31
"	—105	80	<10	160	80	10	20	67

Specimen Date	Specimen #	HAI Titers Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	CF Titers Flu A	Flu B	Trypsin Inhibitory Capacity
8-28-69	440365	80	40	80	20	10	10	
"	—341	80	40	80	80	20	10	
"	—093	40	20	40	40	10	10	
"	—378	160	160	40	40	10	10	
"	—375	40	10	40	40	10	10	
"	—438	80	20	160	160	10	10	
"	—059	40	20	160	160	10	10	
"	—455	80	40	160	160	20	10	
"	—246	40	80	40	40	10	10	
"	—077	80	20	80	80	10	10	
"	—337	80	80	160	160	10	10	
"	—361	320	40	80	80	10	10	
"	—327	40	80	160	80	<10	10	
"	—311	20	10	80	80	10	<10	
"	—257	40	20	160	80	<10	10	
"	—005	160	80	160	160	20	10	
"	—039	40	10	640	80	10	10	
"	—227	40	10	160	40	10	20	
"	—075	160	20	160	80	10	10	
"	—401	80	20	80	40	10	20	
"	—168	40	10	640	320	10	20	
"	—318	20	20	40	20	10	20	
"	—003	20	20	320	80	10	10	
"	—244	40	20	40	20	10	10	
"	—014	640	320	80	20	10	10	
"	—445	80	10	80	40	10	10	
"	—169	80	10	160	40	<10	<10	
"	—236	160	10	40	40	10	10	
"	—184	40	10	160	160	10	20	
"	—233	320	20	160	80	10	10	
"	—295	80	10	20	20	10	<10	

Specimen Date	Specimen #	HAI Titers Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	CF Titers Flu A	Flu B	Trypsin Inhibitory Capacity
8-28-69	440325	40	20	20	20	10	<10	
"	-243	40	10	80	80	10	20	
"	-045	20	10	10	10	10	10	
"	-258	320	160	80	20	20	10	
"	-195	80	20	80	80	<10	<10	
"	-301	640	320	160	80	20	20	
"	-072	80	40	80	40	20	20	
"	-314	80	80	160	160	20	10	
"	-041	40	<10	640	160	10	10	
"	-312	80	20	80	40	20	10	
"	-079	640	40	80	320	10	10	
"	-177	640	640	40	40	10	<10	
"	-224	160	160	40	40	20	<10	
"	-135	40	10	40	40	10	<10	
"	-133	80	40	20	20	40	10	
"	-268	80	40	80	160	10	10	
"	-346	80	20	80	80	10	20	
"	-065	320	20	320	160	10	40	
"	-426	40	40	20	20	10	<10	
"	-429	320	160	20	20	20	<10	
"	-263	40	10	40	40	10	10	
"	-048	40	10	40	20	<10	<10	
"	-259	40	10	10	10	10	10	
"	-218	40	10	80	80	10	10	
"	-282	80	10	40	40	10	10	
"	-002	40	20	20	40	10	10	
"	-350	40	10	20	40	10	10	
"	-465	80	20	40	40	10	10	
"	-164	320	80	80	80	20	10	
"	-019	160	20	40	10	10	20	
"	-457	40	20	80	40	10	20	

Specimen Date	Specimen #	HAI Titers Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	CF Titers Flu A	Flu B	Trypsin Inhibitory Capacity
8-28-69	440024	160	40	80	20	10	<10	
"	-095	160	20	1280	80	20	40	
"	-158	40	10	40	10	10	10	
"	-340	320	80	80	20	10	10	
8-29-69	550043	40	20	1280	640			
"	-037	40	20	80	10			
"	-051	20	10	40	10			
"	-026	160	160	80	20			
"	-066	10	10	40	10			
9-2-69	100326	1280	20	160	320	20	40	
"	-319	40	20	320	80	10	10	
"	-310	160	20	160	80	10	20	
"	-331	640	1280	160	80	10	20	
"	-358	80	80	20	10	160	40	
"	-267	640	160	320	160	20	20	
"	-139	160	160	320	320	40	40	
"	-012	160	80	80	40	20	10	
"	-256	160	160	40	40	20	20	
"	-035	160	20	80	80	40	20	
"	-265	40	10	160	40	20	20	
"	-201	40	10	160	80	10	40	
"	-141	20	10	40	20	20	10	
"	-053	80	10	40	20	10	20	
"	-291	640	320	320	320	320	20	
"	-367	1280	320	1280	1280	40	20	
"	-331	640	1280	10	10	20	<10	
"	-126	640	160	160	80	40	10	
"	-375	1280	320	10	10	20	10	
"	-254	640	320	80	40	40	20	

Specimen Date	Specimen #	HAI Titers Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	CF Titers Flu A	Flu B	Trypsin Inhibitory Capacity
9-2-69	100067	80	10	1280	1280	10	20	
"	-344	320	320	10	10	20	10	
"	-330	320	80	10	10	10	20	
"	-305	320	80	20	20	20	20	
"	-361	40	10	160	80	10	20	
"	-026	320	320	10	10	40	10	
"	-129	320	40	40	20	10	10	
"	-167	320	40	20	20	40	<10	
"	-015	320	10	640	160	20	20	
"	-181	80	20	10	10	10	<10	
"	-224	1280	320	20	20	40	10	
"	-118	40	10	10	10	20	10	
"	-059	320	160	20	20	10	10	
"	-064	40	10	10	10	10	<10	
"	-269	160	80	40	20	40	20	
"	-257	160	10	160	20	20	20	
"	-107	160	10	10	10	20	10	
"	-252	80	40	20	20	10	<10	
"	-197	1280	1280	10	10	40	<10	
9-3-69	330111	1280	160	20	10	10	10	
"	-311	160	80	20	10	20	20	
"	-163	320	320	80	40	10	10	
"	-156	320	10	40	20	10	10	
"	-363	40	10	80	80	10	10	
"	-144	160	80	20	20	10	20	
"	-149	160	160	20	20	20	20	
"	-362	320	160	10	10	40	20	
"	-310	320	10	640	320	40	10	
"	-328	40	10	160	80	10	20	
"	-028	160	10	80	20	20	40	

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
9-3-69	330345	320	320	10	10	10	10	
"	-336	80	10	80	10	20	20	
"	-230	160	20	40	10	10	10	
"	-071	40	10	20	10	10	10	
"	-370	320	<10	160	80	10	10	
"	-346	320	640	20	20	20	10	
"	-376	320	320	20	20	20	20	
"	-150	80	20	20	20	20	10	
"	-112	640	320	160	160	40	10	
"	-065	80	10	160	80	10	10	
"	-135	80	40	320	40	20	10	
"	-091	40	10	20	20	20	10	
"	-053	640	640	20	10	40	20	
"	-351	640	80	40	20	20	10	
"	-364	640	640	10	10	10	10	
"	-158	80	10	40	40	20	10	
"	-023	40	10	80	80	40	40	
"	-067	160	<10	<10	<10	20	20	
"	-335	80	10	160	160	80	20	
"	-325	80	10	80	160	10	20	
"	-114	160	20	640	640	10	20	
"	-089	320	80	10	10	20	10	
"	-381	80	20	80	80	20	10	
"	-056	80	40	40	40	10	40	
"	-377	160	320	<10	<10	20	<10	
"	-057	640	320	160	20	40	40	
"	-165	40	10	10	10	20	20	
"	-307	160	80	20	20	20	10	
"	-077	1280	640	80	80	40	40	
"	-086	1280	1280	10	<10	20	10	
"	-092	80	10	10	10	10	20	

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
9-3-69	330085	160	20	10	10	10	10	
"	-047	1280	640	10	10	40	10	
"	-324	320	160	1280	160	20	20	
"	-108	320	80	20	20	20	10	
"	-041	40	20	80	20	10	20	
9-4-69	440221	320	160	320	80	40	20	
"	-090	160	20	80	40	10	10	
"	-065	160	20	80	80	10	10	
"	-247	160	20	320	320	10	10	
"	-059	640	80	10	10	20	<10	
"	-330	80	10	20	10	20	20	
"	-183	80	10	20	20	20	10	
"	-056	160	20	160	40	20	20	
"	-317	320	80	40	10	20	10	
"	-219	80	10	80	80	10	10	
"	-201	80	40	10	10	40	10	
"	-068	80	40	<10	<10	10	<10	
"	-047	160	20	20	20	10	10	
"	-063	80	80	160	20	40	10	
"	-066	20	20	20	10	10	20	
"	-214	80	20	40	20	10	20	
"	-331	80	20	80	80	10	<10	
"	-060	160	40	160	160	20	20	
"	-027	320	160	40	20	10	10	
"	-095	80	80	10	10	10	10	
"	-072	320	20	<10	<10	20	10	
"	-334	320	40	20	40	10	<10	
"	-184	640	10	320	80	20	20	
"	-070	80	10	80	80	20	20	
"	-197	320	160	160	80	40	40	

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
9-4-69	440186	80	<10	10	10	10	20	
"	—169	40	10	10	10	10	40	
"	—165	160	10	40	20	20	40	
"	—055	1280	160	40	20	10	10	
"	—194	640	160	160	320	20	20	
"	—149	80	10	10	10	20	20	
"	—208	80	10	10	10	10	20	
"	—258	160	10	80	160	20	20	
"	—206	1280	640	80	20	20	20	
"	—227	80	40	160	80	40	40	
"	—142	40	10	<10	10	10	10	
"	—093	20	<10	80	80	10	10	
"	—217	20	10	10	10	20	20	
"	—218	80	10	160	320	10	20	
"	—064	40	10	<10	<10	20	10	
"	—302	40	<10	320	160	10	10	
"	—051	160	40	320	80	20	80	
"	—079	40	20	20	10	10	20	
9-5-69	550076	80	160	10	10	20	10	
"	—119	40	10	10	10	10	10	
"	—203	40	10	10	10	20	<10	
"	—227	80	10	40	160	10	20	
"	—176	80	10	40	10	20	10	
"	—115	320	320	20	20	160	10	
"	—126	80	10	20	10	20	20	
"	—023	40	10	40	10	<10	10	
"	—124	40	10	40	40	10	10	
"	—129	1280	80	320	160	20	10	
"	—065	160	160	20	40	20	10	
"	—135	40	<10	<10	<10	10	10	

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
9-5-69	550202	80	20	10	10	10	10	
"	-022	40	<10	10	10	20	10	
"	-212	160	80	20	20	20	20	
"	-099	320	20	80	40	20	20	
"	-030	40	<10	80	10	20	20	
"	-139	80	80	80	40	10	10	
"	-043	40	40	40	10	10	10	
"	-198	80	40	80	80	20	10	
"	-128	40	40	20	40	10	10	
"	-159	160	20	160	160	20	20	
9-8-69	10054	80	80	20	10	20	10	
"	-095	40	<10	40	<10	10	10	
"	-276	80	40	40	40	10	10	
"	-070	160	80	80	40	20	10	
"	-045	320	160	10	10	80	10	
"	-061	80	40	80	80	10	10	
"	-348	320	80	40	10	40	10	
"	-387	80	80	1280	160	10	10	
"	-085	80	40	80	40	40	40	
"	-285	40	20	<10	10	10	10	
"	-075	640	20	320	80	40	40	
"	-026	80	10	80	20	20	10	
"	-097	160	<10	80	20	20	20	
"	-043	160	160	10	10	80	20	
"	-088	40	20	320	320	20	10	
"	-365	1280	320	80	40	80	10	
"	-373	160	20	40	20	20	20	
"	-078	20	10	10	10	<10	10	
"	-021	80	20	40	320	10	80	
"	-056	640	80	<10	<10	20	<10	

Specimen Date	Specimen #	HAI Titers Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	CF Titers Flu A	Flu B	Trypsin Inhibitory Capacity
9-8-69	10265	40	10	10	10	10	10	
"	—220	160	80	10	40	20	10	
"	—086	40	10	10	20	20	40	
9-9-69	220016	160	80	320	10	80	40	
"	—286	20	<10	320	40	10	20	
"	—276	320	640	<10	<10	40	10	
"	—283	20	<10	40	10	20	20	
"	—260	40	10	40	20	10	20	
"	—241	20	<10	40	10	10	10	
"	—178	160	20	40	40	10	20	
"	—048	40	10	10	10	10	40	
"	—148	40	10	1280	160	10	40	
"	—047	1280	1280	20	20	20	20	
"	—303	1280	1280	10	10	40	10	
"	—051	20	10	<10	<10	10	<10	
"	—060	640	160	20	80	20	10	
"	—279	80	<10	160	320	10	40	
"	—150	160	40	<10	10	20	<10	
"	—009	320	160	10	10	40	20	
"	—239	640	160	160	160	10	20	
"	—235	1280	640	20	20	40	20	
"	—187	80	<10	20	640	20	40	
"	—233	80	10	640	320	10	40	
"	—191	160	20	<10	<10	10	<10	
"	—207	160	20	10	20	20	20	
"	—195	320	160	10	10	40	10	
"	—193	160	20	160	80	10	40	

Specimen Date	Specimen #	HAI Titers Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	CF Titers Flu A	Flu B	Trypsin Inhibitory Capacity
9-10-69	330004	320	1280	40	10	80	20	
"	-267	160	10	80	40	20	20	
"	-280	80	20	80	10	40	20	
"	-042	160	40	20	<10	40	40	
"	-045	80	20	20	40	10	10	
"	-013	80	10	<10	10	20	10	
"	-094	80	<10	<10	10	40	10	
"	-203	320	10	<10	10	20	20	
"	-212	40	10	<10	160	20	10	
"	-040	40	10	<10	10	10	<10	
"	-002	160	20	20	20	20	20	
"	-017	80	40	20	10	20	10	
"	-384	80	20	320	80	20	20	
"	-051	160	80	10	10	80	<10	
"	-415	80	40	20	10	10	10	
"	-138	80	80	40	20	40	10	
"	-382	160	20	10	10	40	20	
"	-015	160	20	40	20	20	10	
"	-376	160	160	<10	10	40	20	
"	-335	80	<10	<10	<10	20	20	
"	-188	160	80	20	80	80	40	
"	-412	40	80	40	10	20	10	
"	-245	160	40	80	40	40	10	
"	-035	160	160	10	10	20	10	
"	-266	160	10	40	10	10	10	
"	-033	640	160	80	10	20	10	
"	-024	1280	160	80	40	40	20	
"	-108	40	10	20	10	<10	<10	
"	-022	160	80	80	20	320	40	
"	-254	80	10	10	10	10	10	
"	-225	160	20	40	40	10	40	

Specimen Date	Specimen #	HAI Titers Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	CF Titers Flu A	Flu B	Trypsin Inhibitory Capacity
9-10-69	330052	160	80	40	20	20	40	
"	-008	40	20	20	10	20	20	
"	-162	80	10	40	20	10	10	
"	-175	80	<10	<10	<10	20	20	
"	-069	640	160	20	10	40	20	
"	-213	160	10	40	20	10	20	
"	-169	160	40	160	640	20	40	
"	-019	320	80	10	10	10	10	
"	-408	160	80	40	80	20	20	
"	-231	160	40	320	320	40	40	
"	-340	40	10	20	10	10	20	
"	-179	320	80	320	80	40	10	
"	-006	160	160	20	10	40	20	
"	-160	80	10	160	640	20	160	
"	-365	80	20	10	10	40	20	
"	-145	1280	640	80	20	80	20	
"	-404	80	20	40	10	10	20	
"	-406	80	20	160	160	20	20	
"	-297	80	20	<10	<10	20	<10	
"	-071	160	80	160	80	20	20	
"	-237	80	40	80	80	20	80	
"	-163	160	20	80	40	10	20	
"	-007	640	1280	10	80	80	80	
"	-106	320	40	160	20	40	320	
"	-156	40	40	160	80	20	10	
"	-050	80	20	10	<10	40	20	
9-11-69	440064	20	20	10	10	10	20	
"	-065	1280	160	<10	<10	20	<10	
"	-091	160	20	640	1280	40	40	
"	-059	640	80	80	80	20	80	

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
9-11-69	440035	1280	640	<10	10	40	10	
"	—107	640	640	20	20	20	10	
"	—095	160	80	160	160	40	20	
"	—030	20	10	20	10	10	10	
"	—105	40	20	20	10	10	10	
"	—197	40	<10	<10	<10	20	20	
"	—136	40	80	10	10	10	10	
"	—273	80	<10	10	10	10	10	
"	—097	40	<10	160	80	10	20	
"	—021	160	160	<10	<10	40	40	
"	—069	40	80	40	10	20	20	
"	—092	320	320	20	20	20	20	
"	—033	80	40	20	40	20	20	
"	—003	320	160	40	20	40	20	
"	—117	80	20	10	10	20	20	
"	—196	320	40	40	80	<10	10	
"	—037	80	40	20	20	40	20	
"	—042	80	<10	80	20	10	20	
"	—040	160	40	10	<10	20	10	
"	—058	40	20	20	20	10	10	
"	—218	320	20	640	160	10	80	
"	—004	320	40	40	10	10	10	
"	—014	40	10	40	10	10	20	
"	—023	160	10	80	20	20	40	
"	—008	320	20	160	80	10	20	
"	—011	<10	20	320	40	20	10	
"	—087	1280	640	160	40	20	10	
"	—019	1280	640	10	<10	10	10	
"	—029	160	10	320	160	10	40	
"	—012	160	<10	10	10	10	10	
"	—237	160	10	10	20	10	10	

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
9-11-69	440010	40	20	20	10	10	20	
"	-291	160	40	40	40	20	10	
"	-061	80	<10	40	40	10	20	
"	-139	40	10	10	10	10	10	
"	-031	40	<10	160	20	20	10	
"	-052	1280	80	10	10	20	10	
"	-169	80	<10	40	10	10	20	
"	-341	1280	640	40	20	20	10	
"	-060	160	10	80	20	10	10	
"	-013	80	<10	40	10	10	20	
"	-070	40	<10	20	20	10	10	
"	-036	160	40	80	40	10	10	
"	-007	80	20	40	80	<10	10	
"	-034	80	20	10	40	20	20	
"	-279	320	80	20	40	20	20	
"	-316	160	10	80	40	20	20	
"	-038	160	40	80	<10	40	20	
"	-041	1280	640	640	320	20	40	
9-17-69	300023	640	80	160	80	20	20	71
"	-163	80	10	160	80	10	<10	23
"	-042	80	<10	640	160	10	40	83
"	-038	160	10	80	80	20	20	
"	-029	320	320	10	10	10	10	57
"	-026	80	40	40	<10	20	20	55
"	-036	160	80	10	10	20	10	55
"	-041	640	20	40	20	40	10	
"	-276	80	<10	10	10	20	10	19
"	-002	40	10	10	10	10	10	11
"	-086	160	10	80	10	40	40	67
"	-105	320	10	80	20	10	40	57

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
9-17-69	300097	640	160	40	10	10	10	38
"	—076	40	<10	<10	<10	20	20	43
"	—027	40	10	10	10	10	10	52
"	—317	40	80	20	20	40	10	71
"	—037	40	10	20	20	10	20	54
"	—261	320	160	40	20	10	10	
"	—090	40	40	320	40	10	20	71
"	—283	160	160	<10	10	20	20	39
"	—166	80	10	20	20	10	20	16
"	—039	1280	1280	20	80	20	20	63
"	—014	320	<10	<10	<10	20	10	67
"	—015	1280	640	160	10	40	10	71
"	—019	640	320	20	10	40	20	8
"	—333	640	160	10	10	40	10	89
"	—312	160	40	40	20	20	40	
"	—096	320	40	40	40	10	10	
"	—010	160	20	320	160	<10	10	
"	—137	40	10	40	40	10	10	
"	—091	320	640	10	10	10	10	
"	—003	80	20	20	20	—	—	
"	—277	640	160	640	160	10	40	
"	—008	160	80	80	10	20	20	
"	—043	80	10	320	20	20	40	
"	—144	160	160	20	10	10	10	
"	—201	20	10	40	40	10	<10	
"	—185	80	80	<10	<10	20	<10	
"	—030	10	<10	10	<10	10	20	
"	—267	40	10	40	20	10	10	
"	—084	320	80	20	20	10	10	
"	—018	40	10	20	10	10	10	
"	—007	40	10	20	10	10	20	

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
9-17-69	500181	160	20	10	20	20	20	
"	-020	1280	160	160	80	10	20	
"	-305	80	10	10	10	10	<10	
"	-309	160	10	64	80	20	20	

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
10-1-69	333157	160	320	320	40	10	10	
"	-165	160	320	80	80	10	<10	
"	-143	160	1280	160	80			
"	-300	160	1280	160	80	10	10	
"	-188	160	40	160	<10	10	10	
"	-207	320	640	160	80			
"	-316	640	640	320	160	10	10	
"	-273	320	40	320	160			
"	-204	640	1280	80	160			
"	-086	160	80	320	80	10	10	
"	-087	40	160	80	40	10	<10	
"	-084	320	160	320	40	10	10	
"	-102	40	1280	160	40			
"	-088	80	80	80	80	10	10	
"	-214	20	640	40	80	10	<10	
"	-217	160	40	160	80	10	<10	
"	-128	160	<10	40	<10	10	10	
"	-150	160	160	160	80			
"	-153	80	160	160	160	10	10	
"	-154	40	320	160	160	20	10	
"	-141	320	80	1280	160	10	40	
"	-155	320	320	1280	80	10	<10	
"	-159	40	80	40	40	10	10	
"	-190	80	40	40	40	20	<10	
"	-247	40	40	1280	80			
"	-085	320	160	160	10	20	10	
"	-265	1280	1280	1280	40	20	<10	
"	-218	320	20	80	10	10	<10	
"	-206	80	40	160	10	<10	10	
"	-210	80	40	1280	160	10	20	
"	-133	80	80	80	10	10	20	

Specimen Date	Specimen #	HAI Titers				CF Titers		Trypsin Inhibitory Capacity
		Flu A-2 Japan	Flu A-2 Hong Kong	Flu B Md.	Flu B Mass.	Flu A	Flu B	
10-1-69	333039	320	1280	1280	40	40	20	
"	—024	160	160	80	20			
"	—061	80	40	320	80			
"	—074	160	40	320	20	10	10	
"	—082	1280	1280	640	80			
"	—059	20	40	320	40	10	20	
"	—062	80	40	40	40	20	20	
"	—033	320	640	80	40	20	10	
"	—003	80	20	40	40	10	<10	
"	—056	320	640	640	40	20	10	
"	—029	160	160	320	20	10	10	
"	—030	320	1280	1280	320	20	20	
"	—027	80	40	320	80	10	20	
"	—013	320	1280	640	80	10	20	
"	—044	80	20	80	40	10	10	
"	—073	40	80	320	40	10	10	
"	—014	160	1280	320	40			
"	—043	160	1280	320	80			
"	—012	40	40	80	40	40	20	
"	—053	40	80	160	80	10	10	
"	—004	40	40	640	40	10	10	
"	—076	80	320	160	40	40	20	
"	—077	20	80	160	40	10	20	
"	—211	160	160	1280	40	10	20	
"	—022	80	80	1280	80	20	20	
"	—049	80	80	640	80	10	<10	
"	—072	80	320	320	40	10	<10	
"	—008	80	80	40	40	20	20	
"	—017	80	320	1280	40	20	20	
"	—025	640	320	640	40	20	<10	
"	—057	80	40	1280	40	20	20	